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ME TOO, PAL
RELAX, CHUM, MY TRIGGER FINGER'S WORKING UP AN APPETITE
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WHY THE DAN'L BOONE RIG?
IT'S THE RIGHT KIND OF DRESSING FOR A TURKEY. LEMME ALONE NOW— I'M WORKING
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To our many members and friends . . .

Merry Christmas

CHRISTMAS is not a day; it is a symbol. And even now, when "Peace on earth, good will toward men" seems but a mockery, may Christmas remind us once again of all the things worth fighting for: of Freedom—to worship God, to work, to play, to hunt, to bear arms, not for war but in that fellowship of sport we knew and will, God willing, know again.

This year, again, we here at NRA headquarters send you greetings of the season and best wishes for a brighter New Year.

"God rest ye, merrie gentlemen;
Let nothing you dismay."

Our 73rd Christmas

NRA

NATIONAL RIFLE ASSOCIATION OF AMERICA

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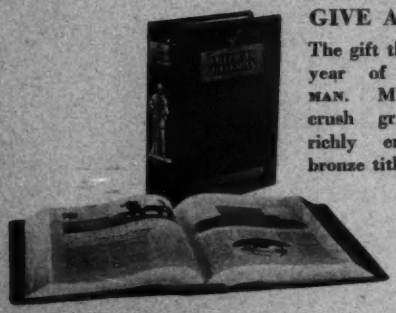

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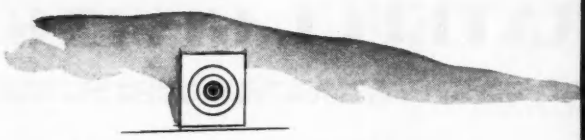

Bull's-eyes Begin at the Craftsman's Bench.....

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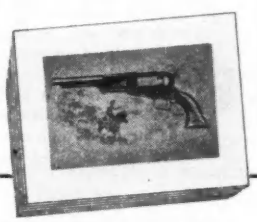

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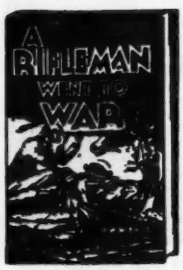

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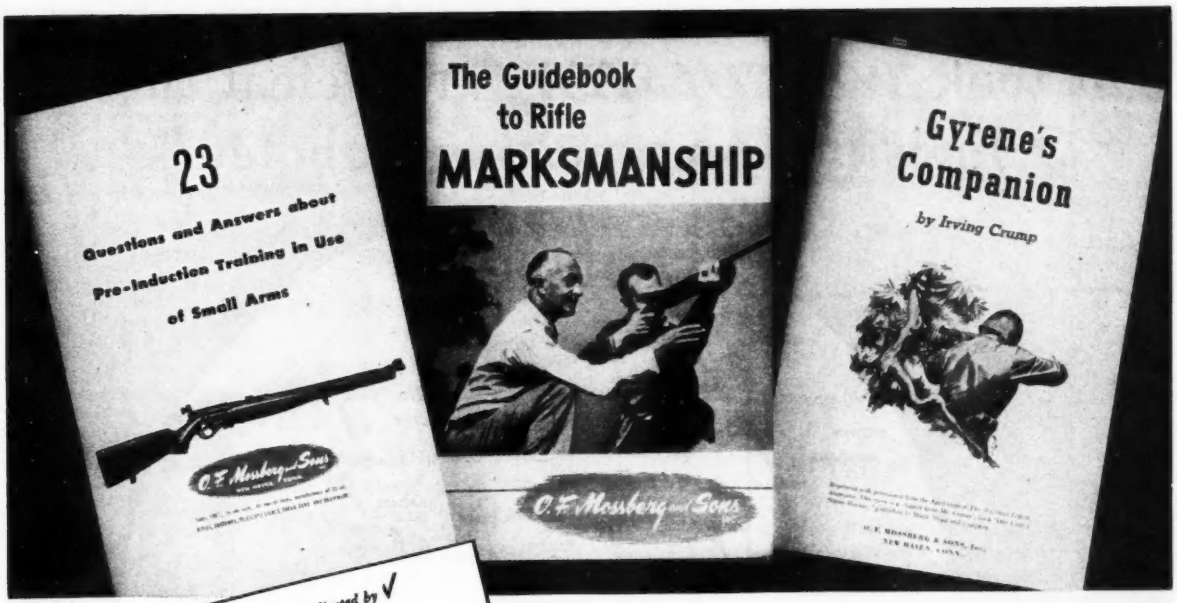

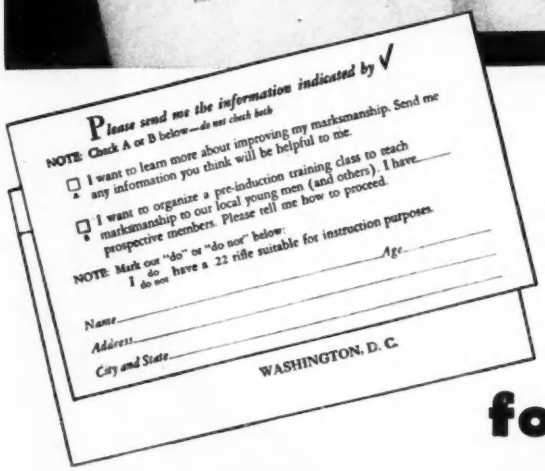
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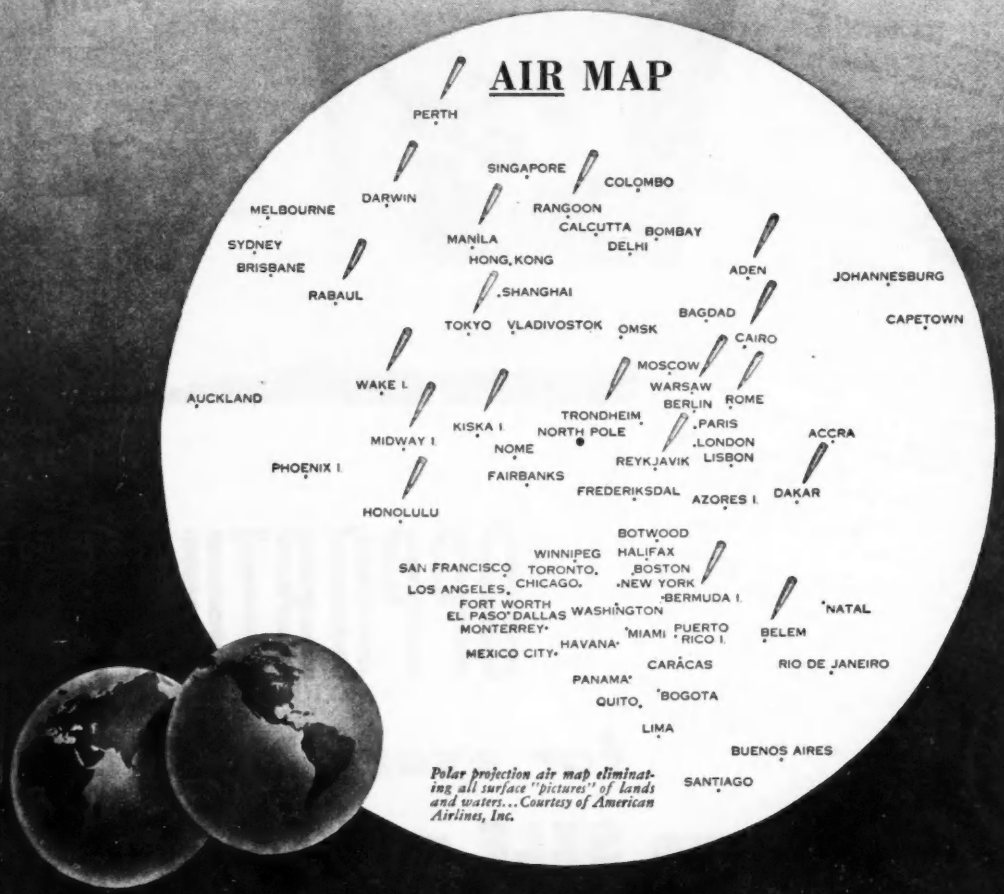

Polar projection air map eliminating all surface "pictures" of lands and waters... Courtesy of American Airlines, Inc.

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New Haven, Conn., U. S. A.
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WHEN PEACE COMES, SPORTSMEN WILL DO WELL TO REMEMBER THAT *WINCHESTER* TRADE MARK AMMUNITION IS GEARED TO GLOBAL CLIMATE

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Peacetime manufacture of the famous Winchester sporting ammunition has naturally ceased. Shown are some of the military cartridges Winchester is currently producing. (Top to bottom) Caliber .50 machine gun Tracer; caliber .30 for Garands and machine guns; caliber .30 for Winchester Carbines.

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The *Official Journal of The National Rifle Association of America*

AMERICAN RIFLEMAN

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THE COVER: As a sober token of a Christmas that comes to a world still at war, THE AMERICAN RIFLEMAN chooses this picture of a warrior in a Christmas setting. From a Kodachrome taken on Pole Mountain, Reservation of Fort Francis E. Warren, Wyoming, by Staff Sergeant Frank S. Errigo and Corporal Ardean Miller, of the United States Army Signal Corps.

THIS MONTH

"Poison Bait for Nazi Wolves," by Ensign Francis E. Stan, U.S.N.R., salutes the seldom-publicized Navy Armed Guard, whose gallantry and accurate gunnery have made surface attacks on our merchant ships so costly that subs stay submerged now, using torpedoes instead of deck guns. And once a sub's torpedoes are gone, her cruise is ended.

"The 'Au-sten' Gun," by W. H. B. Smith, is an evaluation of the Australian version of Britain's famous Sten gun, written by an expert on military weapons, foreign and domestic.

"The 'PMVF' Magnum" records the development of a shoulder gun that has some of the characteristics of a cannon! How soon we will be allowed to tell you *all* about this "Powell-Miller-Venturi-Freebored" is a question; but the story, parts of which cannot be told now, is being written in full—for you, when the time comes.

"An Old-timer's Story," is a forty-some-year saga of game getting with the .22 CF's, from the early Niedner to the recent Swift—as Ed Howard told it to writer Allyn Tedmon. An interesting chapter from the life of a real dyed-in-the-wool rifleman.

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POISON BAIT FOR NAZ

Official U. S. Navy Photograph

By ENSIGN FRANCIS E. STAN, U.S.N.R.

HEARTS POUNDING, we raced for battle stations. Even before the general alarm sounded, our feet were ringing on the thin metal ladders. In the distance—but not far enough in the distance—the deep "cr-r-ump" of a depth charge had sent a shudder through the ship, a new Liberty 10,000-tonner. That shudder had gone right through us, galvanizing us into action.

It was an ominous, foggy day in late September and, although the submarine menace had been curbed in the North Atlantic for the past four months, we were not surprised to learn that the Nazi wolf pack was back again. We had long wondered what new deviltry the U-boats had been cooking up during their absence; what medicine they were making for the renewal of their ocean duels with the convoys. In the messroom, and even over their sound-powered telephones on watch, the Navy Armed Guard crews had wondered. The Merchant Marine men wondered, too.

Now, nervous and jittery at our battle stations, we figured we'd soon know the answer. We shivered, cursing the fog that kept us from seeing targets we knew were near.

Hearts pounding, we raced for battle stations. The wolf pack, defeated once, was back again.

A duller explosion sounded off our port quarter. A brief interval, and the young Navy radioman came racing to the bridge. An S O S. One of us had got it. We waited, wondering, "Who's next?"

We were an eastbound convoy, heavily laden. The Nazi subs had stabbed at a slow-moving westbound convoy, then again at a faster convoy headed in the same direction. That done, they took a crack at us.

We didn't get it too badly, but one of the America-bound convoys was not so lucky. The Canadian destroyer, St. Croix, after picking up seventy-five survivors from another vessel, was blown up, with all hands but one lost. The French corvette, Polyanthus, and the frigate, Itchen, were lost, and five merchantmen were listed as struck.

It could hardly have been called a triumph for the Unterseebooten, however. The wolf pack was beaten off, and it was a less numerous wolf pack than of old. The Nazis claim to have a new super-torpedo; but we had Liberator bombers and surface escorts, and our losses were negligible compared to convoy losses during the first

AZI WOLVES

year of the war. Then, merchant shipping suffered a personnel casualty toll of nearly 4 per cent, while casualties in the armed services ran less than 1 per cent of men engaged during the same period.

We who ride the merchant ships do not feel that *we* are winning the war against the submarines. Subs travel submerged, usually, or with only periscopes exposed. At night, or in the fog and heavy weather so prevalent in the North Atlantic, we behind the deck guns are pretty blind. Even at best, a periscope thrust up for a few seconds to give the sub its bearings is a thin target. But the long-range bomber—the converted carriers—old "Porky," the blimp—and the alert American and Allied escorts of destroyers, destroyer-escorts, and corvettes—sound out the subs, dump depth charges on them and force them to the surface. Then—or when a sub is surprised while he is surfaced to recharge his batteries—our guns are effective.

We of the Navy Armed Guard crews do have the satisfaction, however, of knowing that even before the bombers and before the stepped-up escort program, we made Hitler's attacks on merchant shipping very expensive. Whether in convoy or travelling alone, the armed merchant vessel has guns with which to answer those of the submarines. If we do nothing else, we make Hitler use torpedoes! And torpedoes are expensive. They cost something like fifteen thousand dollars; they're difficult to make; and, most important, expenditure of its torpedoes means that the sub must return to its base to be rearmed.

Crack marksmen themselves, gunners of the Armed Guard battle subs and dive bombers from the decks of our merchant ships to deliver America's "shootin'est army" and its weapons to all the ports of the seven seas.

Today, the first-line merchant ship that prances and waddles like a fat woman learning ballet, is something more than a "pistol-packin' mamma." She carries broadside and dual-purpose guns ranging in size from three to five inches, and she has her 20 mms., her smoke floats, and her snowflake rockets. She is vulnerable; she doesn't have range finders, and she lacks the intricate locating devices carried by the fighter ships. But she packs armament not to be sneezed at in a surface duel with a sub, and she makes the most of it.

The Armed Guard is the "Hooligan Navy." A year or eighteen months ago, nearly all of the officers of the Armed Guard were insurance salesmen, bank clerks, lawyers, newspapermen, auditors. In twenty weeks the Navy makes them gunnery officers. They toss in some indoctrination, some seamanship, some training in blinker, semaphore and flag-hoist reading, some first aid, some supply-corps protocol—and anything else possible in the limited time allowed them.

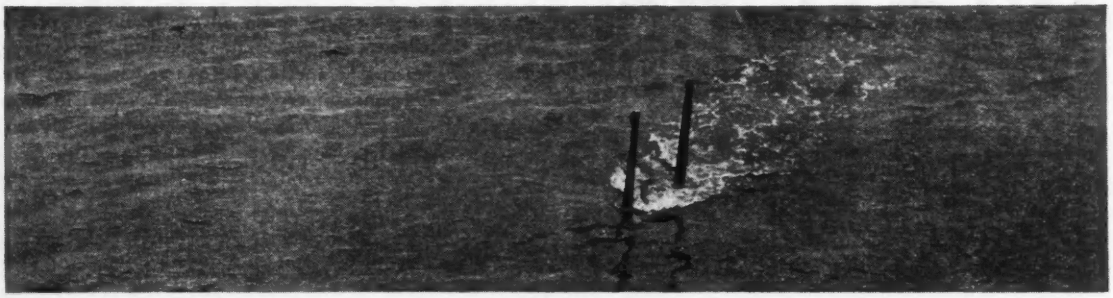
The work of the Armed Guard officer is, itself, an education. The ensigns and j.g.'s find themselves not only gunnery officers but part-time signalmen, message decoders, first-aiders, doctors, even surgeons. They act as liaison officers between Navy and Merchant Marine. They must know these things when they are needed. But, at all times and above all else, they must know gunnery. Woe to the officer who can't take down a 20 mm. and put it together again while giving, at the same time, an intelligent dissertation on double-loading stops, breech-pawls, and parallelograms! He's the guy who's going to have rusty guns for inspection!

The Armed Guard crews are typical new-Navy youngsters fresh out of high school, some graduated, some not. They come out of "boot" training and find themselves in the Armed Guard, next stop Caledonia, Liverpool, or some port in the Mediterranean. Kids of eighteen or nineteen have seen all theaters of the war within a few months after completion of training. They are rated seamen, first class, and are third class petty officers long before they would be ready by pre-war standards.

Guns with plenty of speed and fire-power, like the 20 mm. Oerlikon and the 3-inchers, are the crewmen's favorites.

But they are gun-conscious, those kids. Of twenty-eight in my last crew, all but two could strip, clean, lubricate, and reassemble a 20 mm. into A-1 firing condition in twenty minutes, and that on a rough sea. The two exceptions were the radioman (who had other things to do) and "Pop," who was thirty-eight and a victim of chronic seasickness. The minute the "hook" was up, Pop was sick; and there was no "gold brick" about the sickness, either.

Many of the youngsters had never handled firearms. Very few, including the officers, had ever even heard a



"Target!"

4-incher or 5-incher fired. To the untrained, firing these guns is something of an ordeal. It is not easy to teach spotting to officers, and pointing, loading, sight-setting, and maintenance to the men, in a few weeks. But the Navy's dismal Spanish-American-War gunnery record can be forgotten, for the Bureau of Ordnance has learned the trick of training green men, training them quickly and training them well.

Too, the average American boy takes to gunnery like a duck to water. The brighter ones—those who will strike for gunner's mate, third class—will, in jig time, have a good working knowledge of all the guns used by the Armed Guard, from the .30 caliber machine guns to the 5-inchers. They'll know how to mix recoil fluid, clean friction disks, and choose lubrication suitable to the weather. In a word, they'll be darned handy gunners.

The Armed Guard crewmen's favorite gun is the 20 mm. Oerlikon, "the sailor's sweetheart." The 3-inch dual-purpose gun runs the Oerlikon a close second. In the Armed Guard we are rarely called upon to man the Bofors, which might otherwise rank ahead even of the Oerlikon in the affection of the men. But the 20 mms. and the 3-inchers have fire power and speed, and the men love them.

A few months ago I took a new crew aboard a new ship on short notice. There was no time for interviews before assigning gun stations. The men were simply assembled and asked who wanted to be assigned to the 20 mms. All twenty-five hands went up. Unfortunately, there were only eight of the 20's.

The other guns were manned, however; tall men for the high 3-inchers, huskies for the heavy 5's. Rivalries sprang up during the test and practice firing, the 3-inchers and the 5-inchers matching skill on a raft target and the 20 mms. blazing away at the black puffs of the 3-inch AA bursts. Loud and long were the ensuing arguments.

In the end, each man swore by the gun he served and would have preferred not to change. But changed they were, for there are no specialists in the Armed Guard and each man must be able to serve all guns.

On still another ship, I had probably the most gun-conscious signalman in the Navy. In a convoy the signalmen are busy from dawn to dark with their flags and blinker lights, but this time we were traveling alone and for days and weeks at a time this signalman had nothing to do. To ease boredom, he joined the crew of the stern 3-incher, took over from a seaman, first class, the job of first loader and, before the trip was over, became the best loader on the ship. He was a good "battery" officer too, on occasion. He learned the spotting doctrine and frequently ran the crew through the dawn and dusk "general quarters" drill. Finally, as a reward, he was given five rounds and an empty oil drum as a target. At sixteen hundred yards, he blew it out of the water! "Flags" may have slowed down some as a signalman on that trip, but he was a handy Joe to have on board ship!

The idea seems to be current that the Armed Guard resents the fact that the Merchant Mariner is better paid, with bonuses and overtime. That idea is wrong. In fact, it's the other way around! Some people question the value of a few guns, one officer, and twenty-eight gunners on a merchant ship. It is debatable, I guess. We can shoot only at what we can see, and sometimes we can't see much; at best, a wake, a periscope, a conning tower awash—if we're very lucky, a sub forced up or one surprised while recharging. The Armed Guard has bagged some subs; not many. Against enemy aircraft our record is infinitely better. But the attitude of the Merchant Marine toward us is well enough stated by a Merchant Captain in a recent issue of a national weekly:

"Our men resent the Navy gunners. They stand four-hour watches in all weather, are strongly disciplined, and drill unceasingly at the guns—for only fifty-four (it used to be twenty-one) dollars a month. The day can't come too soon when the Navy and the Merchant Marine are divorced—because that will mean that we can turn on the running lights again, forget degaussing and all that goes with it, and sail in peace. But, in the meantime, I'm *for* the Navy gunners!"

Be that as it may, the convoys are delivering the goods; delivering cargo after cargo in slow eight- to twelve-knot ships that wouldn't stand a ghost of a chance, in sub-infested waters, except for the convoy system.

Faster ships can make a run for it. I've sailed both ways and, personally, I like it best alone. I feel safer. But then I guess I'm collision-conscious.

We who have been in collisions fear them almost more than we do the torpedoes. A torpedo is quick. A collision seems to last for hours! Actually, of course, it's only a matter of seconds between your first sight of a vessel bearing down on you, and the crash. But your imagination can do a lot in those few seconds!

Collisions are an ever-present menace in a convoy. Not strange that they should be, with a hundred or more ships, closely spaced, sailing in heavy weather, in fog, at night, without lights, many of them with inexperienced Merchant captains, sometimes mates, in command. . . .

Who's next? We were, in that September brawl. The Nazis didn't hit us, but the British did. Did I say it was foggy? It was, very. Except for brief moments, I couldn't see either end of my ship. An order came to change our course. We turned . . . and out of the muck loomed a big Limey tanker loaded with high-

octane gas. She was aimed straight at our stern; at our steering engine room, and at our magazine!

High explosive into high-octane gasoline. We did some fast thinking in those few seconds. Not big, important decisions; there wasn't time. The wife back home—letters unwritten—how far does blazing gas spread? Me? I remember remembering my first baseball cap; the one my dad brought home to me. . . .

She hit us pretty hard, that tanker. But she bounced off, and nothing exploded. It took us a little time to realize that nothing had exploded. It took us longer to forget those few seconds of anticipation! In fact—well, I'll not object if my next assignment is on a fast ship, without convoy!

No, the Armed Guard isn't winning the war against the wolf pack, but it's doing its share. It has made the old reckless surface attacks by submarines highly unpopular with U-boat commanders, at least. If they surface, we shoot! Witness the case of Tennessee-born Lieutenant (j.g.) Merill Stone:

Lieutenant Stone's ship was followed for hours by a submarine. Late at night, the sub surfaced. She was so close astern that Lieutenant Stone's stern gun wouldn't bear. They had to wait until their ship pulled away far enough to bring the sub up into the sights. They waited—and cut loose.

They couldn't miss. Neither, however, could they afford to circle, heave to, and pick up evidence. The sinking is listed, therefore, only as "probable." But Lieutenant Stone won the Silver Star—one of the seventy presented, as of April, 1943, to Armed Guard gunners for conspicuous gallantry in action against the enemy. In addition, two Navy Crosses, eleven Navy and Marine Corps medals, and 875 letters of commendation adorn the records of Armed Guard personnel.

One of those Navy Crosses was awarded posthumously to Lieutenant (j.g.) Kenneth M. Willett, of Sacramento, California. It was won during the first reported engagement between an armed U. S. Merchantman and enemy raiders. The engagement opened shortly after noon. Willett came out on deck just as the first shell exploded. He was seriously wounded by shrapnel but he continued to his station, directed his crew, and finally helped man the 4-incher himself, with deadly effect. He kept up a sustained fire at close range on the smaller but more heavily armed of the two raiders—and he hit his target, close to the waterline, with most of the thirty-five shells fired. By his own personal valor and gallant example he maintained the defense of his ship until a magazine explosion forced him to cease fire. Weakened and suffering, but still refusing to quit, Willett was last seen helping to cast loose the life rafts in a desperate effort to save the lives of his men. His ship was shelled from stem to stern; but before she plunged, wrecked and blazing, into the sea, her guns had inflicted serious damage on both enemy raiders and had caused the probable destruction of one.

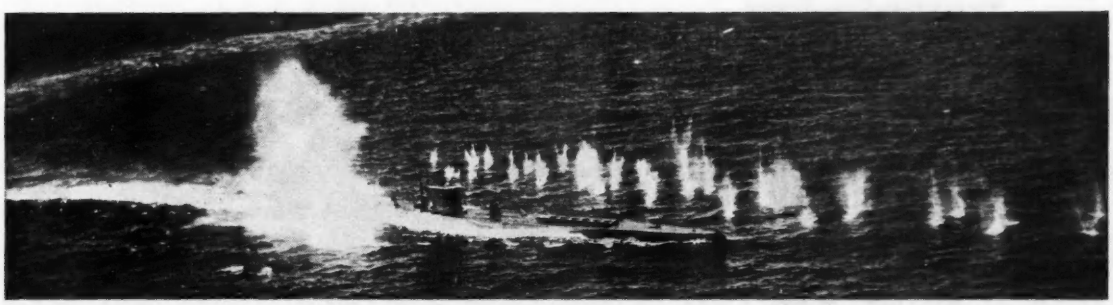
The armed merchantman's 5-inchers provide the knockout.

It's not all glory. Perhaps the following routine report is more characteristic of Armed Guard duty: "After sighting submarine, subject vessel continued zigzagging. Five rounds were expended at intervals of about ten seconds from the 4-inch gun aft. Submarine immediately submerged. It is believed no hit was scored. All Codes and confidential papers remain intact aboard."

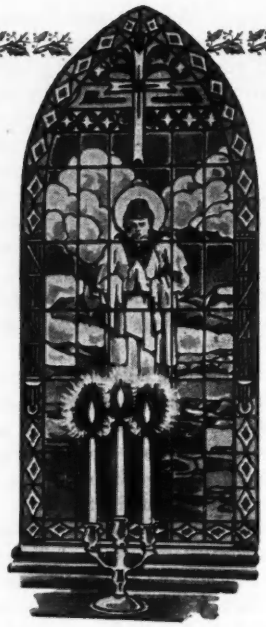
But today's headlines read "Sixty Subs Sunk in Three Months. New U-boat Tactics Fail." That is encouraging. "Porky," the blimp—and those others whose business it is to kill the slinking submarine raiders—must have had good hunting. It is a job we envy them!

But we in the Armed Guard aren't sub-hunters. They hunt us. We are the hunted. Our job is to defend our ships and to "remain—intact—aboard."

The kill.



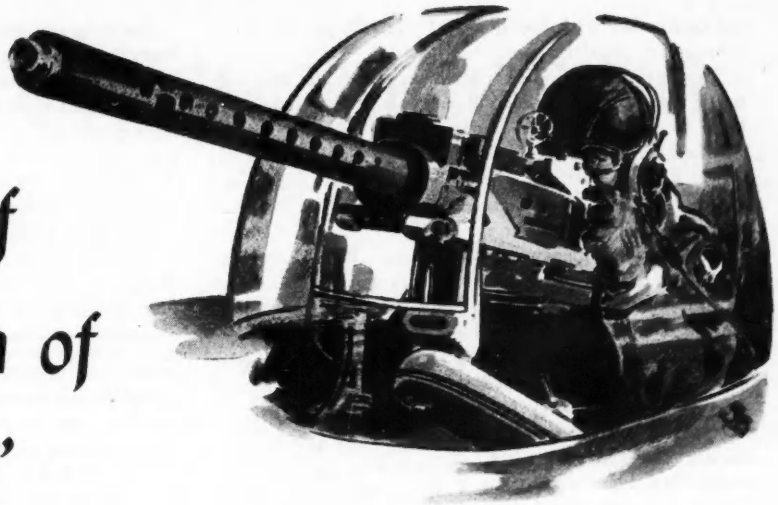
A Prayer



Fondly do we hope--fervently do we pray--that this mighty scourge of war may speedily pass away. Yet, if God will that it continue until every drop of blood drawn with the lash shall be paid by another drawn with the sword, as was said three thousand years ago, so still it must be said, "The judgments of the Lord are true and righteous altogether."

With firmness in the right, as God gives us to see the right, let us strive on to finish the work we are in; to bind up the nation's wounds; to care for him who shall have borne the battle, and for his widow, and his orphan--to do all which may achieve and cherish a just and a lasting peace among ourselves and with all nations.

(Lincoln's Second Inaugural Address)



One of "The Men of Perry"

THERE'S AN OLD SAYING, back in the States, that no trip should ever be started on a Friday.

Maybe the quiet, prematurely gray man in the top turret of "The Goon" thought of that as the big Liberator lumbered down the runway and was airborne for the raid on Haiphong, Indo-China. For this was a Friday, and men do remember such things on their way into battle. Men learn in war that there are more things in heaven and earth than are dreamt of in our peacetime philosophy. There may be truth even in old wives' tales.

Or maybe he was thinking of that day back in 1937 when he won a Bronze in the National Individual Rifle Match at Camp Perry, or of the following year at Perry when he placed first in six matches and was one of The President's Hundred. He was eighth that year in the du Pont All-Around, too. A tough match, that one. A man had to be tops with the smallbore, the .30-'06, and the pistol, else it wasn't worth his while to enter.

More likely, though, that he was thinking about Beatrice June, his thirteen-year-old daughter back in Bisbee, Arizona. She's a gun nut, too. Liked to ride the handlebars of dad's motorcycle. She'd love The Goon. She'd make a first-rate gunner, too, once she learned how fast those Zeros are and how to lead 'em. . . .

It's an old story now, what happened that day over Haiphong: how The Goon laid her eggs on the target and how the Zeros swarmed up around her; how Technical Sergeant Arthur Benko knocked seven Zeros out of the sky in forty minutes of blazing, unbelievable action; how Sergeant Caspar Chinrelison, of Washington, D. C., and Sergeant Robert Kirk, of Alpha, Illinois, shot down two Zeros each to bring The Goon's bag to a total of eleven.

Yes, an old story. For Sergeant Benko's seven flamers over Haiphong brought his personal score up to sixteen to make him the top Zero-Killer in the U.S.A.A.F. in China or maybe in the world. Sergeant Benko was mentioned in dispatches, and newspapers all over the world carried the story. People in Arizona, and people in Maine and Florida and Texas and Kansas read that story and felt better. Proud, by golly! That'll teach those bloody Nips

Arthur Benko, (circle, lower left, below) as a member of the Arizona Civilian Rifle Team at Camp Perry, Ohio, 1938.

not to monkey with real shooters! That'll pay 'em back, a little, for Pearl Harbor!

Sergeant Benko wasn't much excited. He was dog-tired. He was a little bloody, too, when The Goon came back to earth again. A bullet from a Zero's guns had smashed through Benko's glass turret to nick him slightly on the neck and wrist. They've got plenty of guns, those new Zeros; and these today were pressing in close, all guns pounding, crazy for revenge.

"There were plenty of them, too," Benko reported. "I shot at nineteen; got seven. Never worked that turret so fast in my life! But our P-40s gave us great protection. Those buzz-boys stayed right with us. . . . Forty minutes? It seemed to me more like forty seconds. My guns jammed twice; I had to clear 'em. One Zero blew up in all four directions; opened right up in the middle like a blossom! I had a lucky break once. Shooting at one Zero, another made a pass at us and crossed my line of fire. They both went down."

Back home, at Skeet, they'd have made Sergeant Benko shoot that one over. Rules are different in war.

Yes, the rules are different, but the skill's the same. It was no fluke that laid the sights of Benko's guns on the vitals of seven zooming, twisting, diving Zeros in that wild forty minutes of aerial fighting. It was marksmanship; skill won by long practice with the rifle, with the handguns, at Skeet and traps, on the target range and in the hunting field; the skills of basic marksmanship plus those of lead and follow-through learned by actual experience from boyhood onward and brought to focus for this immediate job by specific training in an Army Air Force School of Flexible Gunnery.

For Sergeant Benko is one of ours; one of "The Men of Perry"; one of our own close-knit fraternity of shooters.

The Bisbee, Arizona, Rifle and Pistol Club was organized and affiliated with NRA in February, 1936. On a membership roll sent us in May of that year, Arthur Benko's name appears as a new member. He has been a member of that club, a member of NRA, and a reader of THE AMERICAN RIFLEMAN, ever since. In 1938, he was elected Vice-president of the Bisbee club and appointed as its rifle instructor. In 1940, the Bisbee club made Benko its Executive Officer. In 1942, Benko became President of the Bisbee club; an office which he held until he entered the service.

Benko was Arizona Rifle Champion. In 1937, at Perry, he was a Bronze Medal winner, scoring 43 x 50 at 200 yards Slow, 49 x 50 at 200 yards Rapid, 48 x 50 at 300 yards Rapid, 47 x 50 at 600 yards Slow, and 95 x 100 at 1000 yards Slow for an aggregate score of 282.

In 1938, at Camp Perry, Benko placed first for Arizona in the Navy Cup, the Wright Memorial, the Marine Corps Cup, the Coast Guard Trophy, the Leech Cup, and the President's Match. He was one of The President's Hundred. In the du Pont All-Around, Benko's 1033 placed him eighth in that small bore, big bore, and hand-gun aggregate.

Benko is a gunman's gunman; a hand-loader, owner of a collection of fine target weapons; a hunter; an expert with shotgun, rifle, and pistol.

Sixteen Zeros? That was the score at the end of that raid on Haiphong. It may be more, now!

Good luck to you, Sergeant! And good hunting! We'll be looking for you when this thing is over—at Perry!

THE AMERICAN RIFLEMAN is mailed from Washington, D. C., on a schedule arranged geographically to effect delivery on the same day throughout the country. That is, magazines are mailed to the West Coast on the first day, to the Rocky Mountain area on the second, and so on.

However, wartime strain on postal and transportation systems and on all publishing facilities make it impossible to maintain normal schedules. Ordinarily, late delivery means that the entire mailing schedule has been delayed. This affects all subscribers everywhere alike. Further delays in distribution to various sections may occur occasionally, but we have found that such delays are not regularly confined to the same areas.

If your magazine is late it is due to conditions beyond our control and we ask your indulgence.

The Arte of Shutyng

THE ARTE OF SHUTYNG HATH BEN IN TYMES past much estemed in this realme, it is a gyft of God that he hath geuen vs to excell all other nacions wythall. It hath bene Goddes instrumente, whereby he hath gyue vs manye victories agaynste oure enemyes. But nowe we haue taken up whorynge in tounes, in steede of shutyng in the fyeldes. A wonderous thynge, that so excellente a gift of God shoulde be so lytle estemed. I desyer you my Lordes, even as ye loue the honoure, and glory of God, and entende to remove his indignacion, let ther be sente fourth some proclimacion, some sharpe proclimacion, to the iustices of the peace, for they do not their dutye. Justices now be no iustices, there be manye good actes made for thys matter already. Charge them vpon theyr allegaunce that this singular benefit of God maye be practised, and that it be not turned in bollyng, glossyng, and whoryng wythin the townes, for they be negligente in executyng these lawes of shutyng.

In my tyme my poore father was as diligent to teach me to shote as to learne anye other thynge, and so I thynke other menne dyd theyr children. He taught me how to drawe, how to laye my bodye in my bowe, and not to drawe wyth strength of arms, as other nacions do, but with strength of the bodye. I had my bowes boughte me accordyng to my age & strength; as I encreased in them, so my bowes were made bigger and bigger, for men shall neuer shot well, excepte they be brought vp to it. It is a goodly arte, a holsome kynde of exercise, much commended in phisike. Marsilius Ficinus, in hys boke *de triplica vita* (it is a great while sins I red hym now), but I remembre he commendeth this kind of exercise, and sayth that it wrestleth agaynste manye kindes of diseases. In the reuerence of God, let it be continued.—*Bishop Hugh Latimer, c. 1490-1555, in a sermon preached before the Court of Henry VIII. From "Encore."*

ORIGIN OF CHOKEBORING

IN HIS VERY INTERESTING ARTICLE on "Shooting-Flying," in the September issue of THE AMERICAN RIFLEMAN, Colonel Sheldon states that "the invention of the choke system is generally accredited to Fred Kimble, although W. W. Greener was the first to announce it.

Major Askins, in his book, "Modern Shotguns and Loads," chapter 8, page 70, also states that "Chokeboring is the invention of Fred Kimble" who discovered it in the early seventies. "In attempting to improve the shooting of his gun . . . he, (Kimble) decided to narrow the muzzle like the nozzle of a hose." But the gun shot poorly and Kimble then bored out "about all" of the choke and obtained the best pattern he or anyone else had even seen. Askins goes on to state that after having bored a few guns, Kimble sent some to Boston gunmakers and one to Greener, who within the year was winning all English gun trials with this system of chokeboring.

In Doctor Ure's "Dictionary of Arts, Manufactures, and Mines," edited by Robert Hunt, sixth edition, three volumes, published in London, 1872, volume 2, page 302, in the article on Fire Arms, there appears this statement: "Many sportsmen are of the opinion that a barrel with a bore somewhat narrowed toward the muzzle serves to keep shot better together." The preface to this sixth edition is dated April 9, 1867, and contains the statement, "The Articles on Artillery and Fire Arms have been rearranged, and much new matter added to them." Thus it seems reasonable that the quoted remark on narrowing the muzzle was in the article at the date of the preface. Hence, unless Major Askins is in error as to the date (which could well be the case as his book does not purport to be an historical treatment of the subject) it would appear that a barrel "with a bore somewhat narrowed towards the muzzle—to keep shot better together" was known before Kimble's work "in the early seventies."

I should judge the situation to be about as follows: narrowing of the bore near the muzzle to keep the shot better together was pretty generally known prior to Kimble's work; but, while some narrowed bores must have kept the shot better together, others did not, probably because they were overchoked; and no one, until Kimble, discovered how to narrow the bores properly.

Kimble, according to Askins, narrowed his bore like the nozzle of a hose, which probably was the prevailing idea at the time. He found that was bad, bored out "part" of the constriction, and got what he wanted.

Thus, while the broad idea of muzzle constriction was probably known prior to Kimble, it apparently was Kimble who discovered and was able to reproduce in different guns the *proper amount* of constriction or choke. Hence Kimble was not the inventor of chokeboring, as accredited by Colonel Sheldon's article and Major Askins' book, but he apparently was the inventor of the proper amount of chokeboring. So far as appears here, he was responsible for the present-day chokebored shotgun.

To the average reader, drawing this distinction between the inventor of chokeboring and being the inventor of the proper amount of chokeboring may seem like splitting hairs; but to a patent attorney like myself the distinction is important. It seems to me much more to Kimble's credit that he could take the old idea of muzzle constriction, see why it didn't work well, and devise a degree of constriction that would work and which could be reproduced in different guns with the assurance that it would perform as intended, than merely to be accredited with the general idea of chokeboring.

This letter, from Mr. T. T. Greenwood, of Boston, was forwarded to Colonel Sheldon, whose reply follows:

Editor: Mr. Greenwood is quite right. Fred Kimble was not the "inventor" of the chokebore system, although he probably thought he was.

The idea of the choke is almost as old as the shotgun, and while I cannot quote offhand my authority for this statement, I know that away back in flintlock days—and probably in matchlock times as well—gunmakers were experimenting with the theory of reducing bore diameter toward the muzzle in an effort to get closer patterns. Some worked on the plan of a gradual constriction increasing from chamber to muzzle. Others, getting warmer, put all the constriction at or near the muzzle.

There were "relief" borings, too: barrels with a "choke" midway of the tube. No doubt there were hundreds of other variations of the choke system produced by individual gunsmiths who sought more regular patterns of greater density. Rifling was tried, both straight and spiral, but none was successful and most threw patterns much worse than those of the true cylinder bore.

As Mr. Greenwood says, it was Fred Kimble who "discovered" the right amount of constriction to use and where it should be applied in the bore.

I should have used "discovered," "perfected," or "developed" as the word to indicate the degree of Mr. Kimble's contribution to the Art of Shooting Flying, and I acknowledge the error.

But why in Hell, may I make so bold as to inquire, should you and Lawyer Greenwood pop this one at me right in the middle of the woodcock season?—H.P.S.

In the light of these letters, excerpts from Fred Kimble's own story (published in THE AMERICAN RIFLEMAN, November-December, 1936) have renewed interest and tend to clarify still further Kimble's contribution to modern shotguns and shotgun shooting:

"Even though, according to some of my scholarly friends, chokeboring is mentioned in sporting literature as early as 1781, I had never heard of these early experiments. But one day I thought that if I could constrict the muzzle of a gun, make it smaller than the rest of the bore, the shot wouldn't spread over such a large area."

Kimble then bored an experimental barrel, leaving a heavy choke at the muzzle. This barrel, when fired, produced a shot pattern even worse than that of a cylinder-bored gun. Disgusted, Kimble cut his barrel off at the muzzle, intending to remove all the choke and leave a true cylinder bore. He says:

"Thinking I had all the choke taken out I loaded up and shot at the same target, from the same distance, forty yards. Expecting to find the usual five-foot pattern (I found) the entire shot charge clustered within a thirty-inch circle! This was the first target of the kind I had ever seen! . . . In my hasty re-boring I had not taken all the choke out, but had left just enough to do the trick."

The "Au-sten"

(Australian Sten) Gun

By W. H. B. SMITH

OUT OF THE BATTLE EXPERIENCE of their famed African Army, the Australians have developed one of the most remarkable weapons of the present war. By combining the best features of the already famous British Sten Gun with the finest German sub-machine developments in the Schmeisser (or M.P. 38 and 40) Machine Pistols, and adding a few individual Australian improvements, they have evolved a weapon which is a real standout in its class. They call it the "Austen"—the Australian Sten Gun.

The Austen has eliminated all the kinks of the Sten and the Schmeisser. This gun has all the necessary elements of cheap and easy manufacture, and is a real weapon worthy of adoption as a standard military arm. It is not to be confused with the toymaker variety of bullet-squirter which gives nothing but added fire power, and that only until the stamped-out receiver gets a dent which puts it out of action.

The Schmeisser has three general faults: (1) Its excellent folding stock has considerable play when extended for shoulder use. The Australians adopted the stock but improved the lock to make a remarkably rigid design. (2) It is full-automatic only; and, Hollywood to the contrary notwithstanding, a competent sub-machine gunner seldom finds use for the spray-power of his weapon. The Australians, therefore, adopted the Sten trigger housing and mechanism which permits immediate switching from semi- to full-automatic by pushing a button on the housing just ahead of, and above, the front of the trigger guard. (3) Removal of the Schmeisser barrel requires a tool. In the Austen, even the simple barrel removal of the Mark II Sten is improved upon, making barrel removal a matter of seconds.

The Sten Gun also has three general faults: (1) The stock is rigid and, when removed from the receiver where its forward ring end serves as a stop for the recoiling parts, the gun is unsafe to fire. The Australians combined the Sten takedown system, employing the stock ring sliding up in grooves in the receiver with the Schmeisser folding feature to provide a compact weapon carried as a single unit, yet capable of being rapidly converted from a close-quarter, unaimed, blasting weapon to a shoulder arm capable of reasonably accurate work within the range of such weapons.

(2) The recoil spring in the Sten is always visible through the bolt handle slot, and it can kink and rust readily if not well cared for. To remedy this feature, the Aussies took over the Schmeisser bolt and telescoping recoil tube, probably the simplest and finest design ever conceived. They modified this system only to the extent of making the necessary changes to provide for right-hand cocking and for left-side loading. The Schmeisser feeds from below.

(3) In the Mark I and Mark II Stens, the fingers of the left hand can be jarred into line with the ejection port as the bolt rides home. This is dangerous and can stop both the gunner and the gun. In the Mark III Sten, a flange behind the ejection port is provided to prevent such accidents. But the barrel casing can get hot enough under emergency fire to make holding the gun decidedly uncomfortable. To remedy this the Austen provides a second pistol grip.

Slots in the rear end of the receiver permit a heavy metal stop to which the stock is attached to slide up from below. A hole in this stop permits the head of the recoil tube and its housing to pass through, and this, sustained by the normal recoil spring tension in forward position, serves to keep the stock and the stop securely fastened to the receiver. Pushing in the housing and tube end permits the stop and the stock to slide down and out of the gun as the first dismounting step.

The telescope tube has four sections. The largest is the first which carries the firing pin in its nose, and which

Australia combined the virtues of Britain's Sten and Germany's Schmeisser, added some improvements of their own, and brought forth a high-fire-power weapon that is "a standout in its class."

seats in the hollow bolt permitting the firing pin to pass through its hole in the bolt face. The recoil spring is completely protected at all times as is the lesser buffer spring at the rear.

The bolt and bolt handle are integral. The bolt has fins machined into it for stripping cartridges from between the lips of the magazine during forward travel; while on the right side it carries a heavy extractor mounted on a pivot pin. This extractor extends over the firing-pin hole, and effectively blocks the firing pin except when the extractor is gripping a cartridge case.

The barrel is not screwed into the receiver in the conventional manner. It is held by a screw barrel nut which rests against the barrel flange and holds it in line. To remove the barrel it is necessary only to pull back the spring-controlled locking pin at the forward end of the magazine housing and unscrew the barrel nut to the right. This nut carries with it the front sling swivel and the radiator casing which extends forward over the barrel. When the barrel nut is removed, the barrel can be pulled or shaken out without difficulty. This is an extension of the idea originally incorporated by Australian designers in their earlier Owen Sub-machine Carbine and permits the use of spare barrels for maintaining fire power, usually in defensive action.

The working system of the gun is a far cry from the day when a sub-machine gun had to be tricked out with involved, alleged locking systems and sell for $200 or more before it was considered a service weapon.

Pulling back the cocking handle carries the bolt and the first section of the tube back, telescoping the other sections until the sear catches in the bent of the bolt. Pressing the trigger depresses the sear and the compressed recoil spring pushes the bolt forward. The feed ribs strip a cartridge from the magazine and, as the cartridge is about to seat in the firing chamber, the broad extractor comes up over the head of the cartridge case and snaps into the cannelure of the case ready to extract. As the extractor head moves out of line of the firing-pin hole, the pin passes through to fire the cartridge. On rearward movement, the empty case strikes the ejector and is tossed out the right side of the gun. That is all there is to it. The weight and inertia of the moving

For use as a shoulder arm the stock is extended.

parts is sufficient to hold the gun closed during the moment of high pressure as the cartridge is fired.

The cyclic rate of the Austen is about 500 per minute. The gun weighs eight and three-fourths pounds without magazine. With stock folded it measures twenty-two inches; with stock open, thirty-three and one-fourth inches. Overall barrel length is seven and seven-eighths inches. Barleycorn front sight and aperture rear are mounted on the receiver. It is sighted realistically for one hundred yards.

In action the gun is simplicity itself. The 32-shot magazine is inserted in the housing on the left side until it locks. This permits better firing from the prone position. The magazine release button is on the top, rear of the housing. The bolt (or cocking) handle is pulled back until the sear catches in the bent of the bolt, holding the weapon open and ready for firing.

At "safe," the bolt is pulled back past the full-cock position, then turned up and into a locking slot in the top of the receiver. It must be pulled back and turned down to release it. No more complicated safety is necessary or desirable on a sub-machine weapon.

When used semi-auto, the usual procedure, the button is pushed through the trigger guard housing from the left (marked "R" for repetition). Pushing it from the right (marked "A") converts it to full-auto.

So much misinformation has been peddled about ammunition for the Sten Guns that some factual discussion may be of value. They will take *only* the Parabellum type cartridges of 9 mm. caliber. These cartridges have in common an overall length of 1.14 to 1.16 inches. They may have round or truncated nose bullets; they may be loaded for Italian Glisenti and early Beretta pistols with

The Austen completely field stripped.

a charge developing never over 950 f.p.s.; they may be the standard German Army or American commercial Luger 9 mm. developing from 1075 to 1150 f.p.s. with short barrels; or they may be semi-armor-piercers using the Beretta Fiocchi type or the German Neuhausen and Schmeisser type loads developing 1500 or more f.p.s. (These high-power loads are tough to handle in Walther and Luger pistols and are positively dangerous in others.)

However, Sten types will *not* take 9 mm. Mauser, Steyr, Bayard, or star-type cartridges where the overall length runs from 1.37 to 1.40 inches. They simply cannot be inserted in the magazine. Nor can the 9 mm. Corto (the equivalent of our .380 Colt Auto., and very popular on the Continent) be used.

In passing it should be noted that the Austen is another opinion registered in the old battle of the .38 versus the .45. The Australians, the British, and the Russians have had ample opportunities to try out theories in this war; and while they have had ample supplies of lease-lent .45's for battle test, in developing new weapons they have concentrated on the 9 mm. *or lower* caliber. The latest Russian sub-machine guns are using the 7.63 mm. Mauser-type cartridge; a noteworthy commentary in face of the fact that the Russians are using sub-machine weapons more widely than any other fighting force. The Germans, after testing the Schmeisser in a caliber approximating our .45, swung back to the 9 mm.

A Bisley-Frontier Combination

By GORDON C. BOSER

AFTER USING MANY Frontier and Bisley Colt revolvers, the writer decided to try combining the best features of both models to make a revolver for both target and game shooting. The Bisley as it comes is inclined to point downward, while the Frontier grip forces a hold too far below the line of bore. Both of these arms will fit almost any hand, but they do have the above faults.

At the time I built this gun I had some ideas derived from an article by Keith in THE RIFLEMAN. His guns were similar but I added some features of my own that were not incorporated by Croft, Newman, and Sedgley. However, the principles were the same, the .44 Special caliber being my choice also. I selected barrel and cylinder accordingly, ordering all parts large enough to get a fine hand-finished action and close tolerances.

The Bisley-Frontier and six of the author's hunting loads.

As the photo reveals, the back strap was of the Bisley, reformed, cut off, welded to conform with the Frontier trigger guard, and then attached to the regular Bisley frame. The Bisley trigger was cut off and reshaped to come back to the limit of the guard, thus eliminating backlash. The trigger was well curved to fit the finger in a natural way and the grip allowed natural pointing and a high consistent hold. The grip plates were of a beautiful light-figured walnut (foreign). They were made from a high-priced Mauser rifle stock and very finely shaped to fit my hand; the best fitting revolver grips I ever had the pleasure of using.

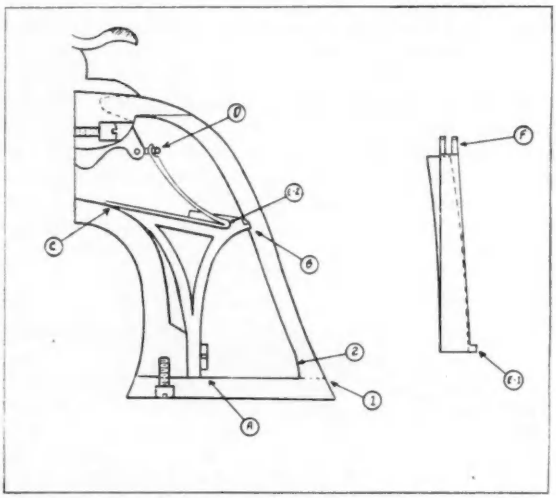
The mainspring was of the V-type in a special housing held in place by the mainspring screw on the Frontier guard. A projection engaged a slot milled into the back strap. The spring had a lug on the right that engaged a hole in the housing; the front strap held the bottom leaf and the stirrup of the Bisley hammer engaged the slotted end of the top leaf. I made several housings before I found the position that gave me the easiest cocking action that I have ever seen, yet with sufficient speed for accuracy and sure ignition. The trigger guard had to be milled larger for the wide trigger. Trigger was tuned to a fine 3½-pound pull, with a letoff that was very short and crisp. A new alloy steel firing pin and recoil plate was fitted and the results were very satisfactory; no possibility of puncture or blowback of the primer or liability of breakage. This was all due to the type of steel and the way of fitting. The base pin was of tool steel with a large head for easy removal. All parts were polished and fitted as closely as was posisble and still retain free function. The barrel and cylinder were fitted to .0025 inch and the head space was .009 inch.

The 5½-inch barrel had a 1/10-inch Patridge sight to correspond with the square rear. The front sight had the beveled tip which is primarily designed to show up in the woods. Holding the bottom of the bevel on the bottom of the rear notch gave elevation enough to center a 190-grain bullet at the same distance as a 230-grain bullet would do when the front tip was held level across top of the rear notch. When the bottom of the front sight bevel was held at the top of the rear notch, it gave the same results with the 250-grain bullet.

I fired some fine groups with this arm. It was far better to grip than the Bisley; slower than the Frontier for the first shot, but for general use ahead of the Frontier also.

My favorite load was the Keith No. 429421 with my large taper cavity, weight 230 grains, backed by 8.5 grains Unique for hunting. The best stuff for target work was the B. & M. No. 429240 235 grains and 7.2 grains No. 5. I used many other loads but these are the best for target and game. I killed a crow at 75 yards from a tree top, offhand, and one chuck at 186 paces, two hands, prone; the two longest shots with this gun.

I am quite convinced after the use of this arm that such a job commercially made would have a large following with the gun fans. I really found almost all of the good features of both the Bisley and the Frontier and just about eliminated all of the bad features of both. I expect to rebuild another of these arms in the future when I will incorporate all of the action features mentioned in the April .401 Colt article. It may be that I will choose another .401 for this further experiment.



At "A", mainspring housing (skeletonized to reduce weight) is fastened at original mainspring position; at "B" it engages the groove in back strap. Bottom leaf of mainspring lays on housing and on front strap at "C". "E-1" shows projection on mainspring which engages housing at "E-2". Main spring slot, "F", engages hammer stirrup, "D". The back strap of the Bisley was cut at Fig. 1, squared, and moved up to "2", where it was re-welded.

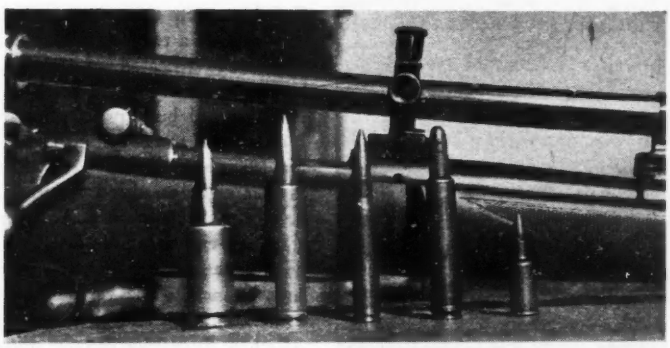
The "PMVF" Magnum

A DOPE BAG REVIEW

During October, 1942, E. Baden Powell was requested to investigate and report on certain phases of the .300 Miller "K" cartridge and on its performance in the various rifles suitable for it. Because of patent rights the *how* and *why* of this Miller method of chambering and boring cannot be explained.

The first rifle tested was a standard grade, used, Model 70 Winchester, No. 9992, equipped with an A-5 scope sight, and chambered for the .300 H. & H. Magnum cartridge. This rifle had been fired about 500 times, and grouped full-charge loads into about two minutes of angle.

It was one of the first to have the Miller Venturi shoulder utilized in this caliber, and the "K" case as altered held about seventy-eight grains of powder. Powell designated it .300 "MVF." In it, seventy-seven grains of 4064 drove 150-grain bullets of all types and makes through the toughest bulletproof, homogenized armor plate of one-half-inch thickness. The pressure was sufficient to loosen the primer pockets slightly and the charge appeared to be about three grains above safe maximum loads. A charge of eighty-two grains 4350, compressed into the case, failed to penetrate a five-eighths-inch homogeneous plate. No shoulder rifles had ever penetrated this plate.



The PMVF with, left to right, a .50 caliber M.G. necked to .30 caliber, holding 130 grains powder; a .300 PMVF with M1 service bullet; a 30-'06 Armor Piercer load; a .300 PMVF with 165-grain .30-30 bullet, hollow point; and a Miller .22 Krag with Sisk bullet. ("PMVF" = Powell-Miller-Venturi-Freebored.)

Powell then redesigned the chamber to allow the case to hold about ninety grains of powder. This, he estimated, would impart about 4000 f.s. muzzle velocity to the 150-grain bullets and give sufficient velocity to the 172-grain bullets to drive them through this five-eighths-inch armor plate. This load with the 150-grain bullet fired from a twenty-five and one-half-inch barrel was chronographed four months later at 3550-3600 f.s. instrumental velocity at seventy-eight feet.

Miller undertook the redesigned job reluctantly because of the hazards of a taperless case sticking in the chamber, of ruining scarce and costly cases in expanding them to such increased diameters, and of the dangers of the great back thrust on the comparatively light and springy action of the M-70.

The change was completed about the first of last December, however, and was designated .300 "PMVF" (Powell-Miller-Venturi-Freebored). The case held about ninety-two grains of 4350 powder slightly *compressed*. This sent the 172-grain bullets through the five-eighths-inch plate, tearing about one-half-inch diameter holes. The pressure, however, enlarged the primer pockets, and it was found that the M-70 action is not strong enough to withstand continued firing safely with more than eighty-seven grains 4350 behind the 170- to 180-grain bullets. It was found, too, that the standard weight rifle will not shoot groups for practical game shooting accuracy (two minutes of angle) at 400 yards with more than seventy-eight grains 4350 powder. Seventy-eight grains of 4350 behind the M1 bullet exerts about as much pressure on the primer as two-thirds of this amount of the same powder in the regular .300 H. & H. case, Powell stated, adding the following:

"About 500 rounds have been fired in this rifle during this past month with charges of seventy to ninety grains. The bolt lugs made only partial contact, as is the case on most bolt actions we examined, when these extended firing tests were commenced. After about 200 rounds, however, the faces were pounded back to make a 100 per cent surface bearing. The face of the bolt was found to be *NOT* at right angles to the bore of the rifle, hence had to be ground to support the cartridge head squarely. Otherwise, the cases were difficult to seat when reloaded, due to the heads being deformed. Taking out all this slack, although not done until more than 400 heavy loads had been fired, required the removal of only a total of about .012 inch head space! One thousand rounds of eighty-grain charges of 4350 powder behind 180-grain bullets and of seventy-five-grain charges behind 220-grain bullets would in all probability cause less head space, provided the bolt face and bolt lugs were properly trued to make 100 per cent contact in the beginning. With charges up to eighty-six grains and the 172-grain ball, the bolt opens with ease and the 'taperless cases' fall out without effort. While heavier charges extract without resort to a ramrod, their more difficult extraction would interfere with accurate rapid fire.

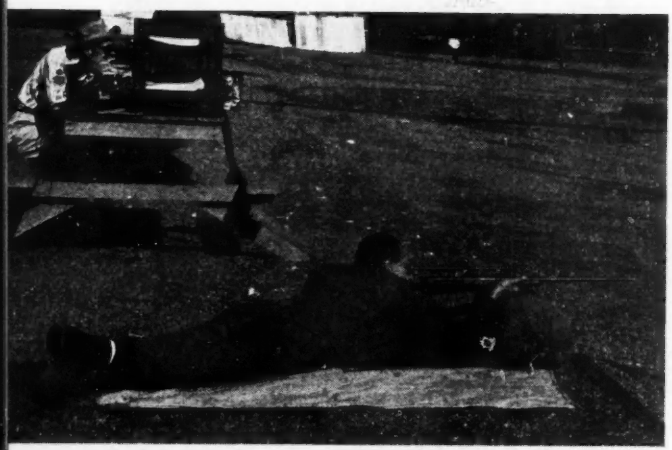
"Case forming proved to be quite a chore and a paradox at first, but was soon mastered except for one brand of used cases. Only one out of seventy-five new Remington cases was lost.

"When rifles of standard weight are subjected to recoil factors exerted by charges in excess of seventy grains of modern powders, accuracy is difficult to control and anyone desiring to convert a regular-weight .30 caliber M-70 or 30-S to utilize the .300 PMVF cartridge should insist upon having a *complete set of alterations* made to the gun at the time it is rechambered."

Powell has found it necessary to recommend certain essentials (as the result of the test just concluded) in

order that the greatest safety, accuracy, and comfort be assured. These essentials are:

"Grind and true the bolt face to support the head of the cartridge perfectly. True the bolt lugs to make 100 per cent contact when locked. Freebore for at least two inches ahead of the chamber. Bed the barrel and action to the stock full contact between the four screws, from the rear of the action to the center of the forearm on the M-70, or to the front screw on the 30-S. Free the barrel completely, forward of the front screw, from contact with the fore-end on the 30-S. Attach a comb to the top of the stock to a height even with the center of the bore, with the same drop at the heel and the comb, and have the comb recessed to remove the bolt. Have the butt cut at right angles to the bore of the rifle (no pitch) and attach a good recoil pad.



E. Baden Powell shooting his Model 70 Winchester, .300 PMVF caliber, from sandbag rest. His son, Bob, at spotting scope.

"This will raise the heel from one to two inches and will decrease the jump of the muzzle of the gun from about eight inches to about two inches. It will also decrease the *apparent* recoil from that of noticeable unpleasantness with eighty-five-grain loads to where the kick seems about like that of a Springfield with conventional drop and pitch of stock. Unless this is done, when a shot is called as going out at 3 or 9 o'clock, it will not land in the nine-ring as when firing fifty-grain loads, but the recoil will carry it into the eight-ring, and, when a shot is called going out at 6 o'clock or 12 o'clock the recoil will put it in the white. The straight stock with no pitch reduced this '*recoil inaccuracy*' by half.

"Likewise the barrel and action must be securely fastened to whatever part of the stock it touches, and that part of the barrel forward of the last tie down, must be *really* freed from touching the stock not only while it is at rest, but especially when the barrel is being vibrated around like a corkscrewing reed while the bullets are tearing out through the barrel. Even the lightest touch will cause this greater amount of vibration set up by the heavier charges to flip the bullets when the barrel rebounds. It was interesting to note that, with the heavier charges, if enough shots were fired in one string, the bullets made perfect concentric circles anywhere from two inches to six inches in diameter, with charges above eighty grains and with the barrel in a free state.

"The stock should be treated with a waterproofing compound by a proved pressure method in order to increase the strength of the ordinary wood used in the commercial stocks and to prevent humidity and temperature changes causing the stock to alter the zero and accuracy of these high-recoil rifles.

"A charge of seventy-eight grains 4350 indicates a gravity drop over 400 yards (sea-level, 60 degrees F.) of two and one-half feet with the 173- and 180-grain bullets fired from a twenty-six-inch barrel and a remaining velocity and killing power at that range about equivalent to factory .30-'06 at 100 yards and of the regular .300 Magnum at 200 yards. A load of seventy-five grains 4350 behind the 220-grain bullet appears to have nearly 3000 f.s. muzzle velocity and it has penetrated both thigh bones of a 750-pound animal. It extends the killing power of this bullet to twice the range of the regular .300 Magnum, four times that of the .30-'06.

"A bull gun weighing about fifteen pounds was made up for the .300 PMVF on a strong Magnum action (1917 Enfield) with thirty-one-inch barrel, which the writer has fired on a temporary stock. The M2 bullet at about 4000 f.s. indicated m.v. with ninety-six grains 4350 behind it, barely failed to drive through Crucible Steel's homogenized bulletproof three-fourths-inch armor plate. Ninety-five grains behind the M1 bullet also failed. But ninety-two grains of 4350 drove the 165-grain Armor Piercer right on through. A load of ninety grains 4350 behind the 220-grain R.A. Express bullet drove through the five-eighths-inch homogenized bulletproof armor with apparent ease, but this one also failed on the three-fourths inch. The velocity of the 220-grain bullet was about 3200 f.s. and the energy about 5000 foot-pounds. All these loads enlarged the primer pockets. Safe normal pressures were had with about five grains less powder.

"About twenty-five .300 PMVF cases were reloaded with heavy charges (below that which enlarged primer pockets) more than a dozen times and still appear to be in prime condition. No failures occurred after the cases were properly formed. The bore of the M-70 appears to be in excellent condition after all these tests. This .300 caliber, affording the range of loads from light to heavy at a high degree of accuracy, and possessing ballistic qualities that outperform any other sporting cartridge so far demonstrated, makes it the finest all-around rifle, in either custom or commercial conversion, for world-wide use on all nondangerous game animals."

Powell also sent in a detailed report on the test firing of the scope-sighted, ten-pound, M-70 Winchester, in the .300 PMVF caliber as mentioned. The digest which follows is arranged in three stages. The first series of results was obtained with the fore-end screw turned out to leave the barrel free. The groups were fired at 100 yards in five-shot strings except where otherwise indicated.

The 220-grain Core-Lokt bullet made an extreme spread of two and one-half inches when driven by ninety grains of FFg black powder and only seven-eighths-inch spread when Fg was used instead. This latter load made a two-inch group when the 220-grain Silvertip was substituted. These Western bullets tipped at that range with that m.v. which was estimated at 2000 f.s. or less. The R.A. No. 2½ pistol primer was used.

No. 4759 was used with the W.R.A. No. 115 primer and Service bullets. The 172-grain M1 bullet made a five-inch spread with 30.8 grains and a group of two inches when the charge was cut to 23.1 grains. The 150-

grain M2 bullet made a ten-shot group of six inches with a light charge of 15.4 grains.

These same bullets were tried with No. 3031 powder and Western No. 8½ primers. The M2 bullet spread five inches with a charge of forty-six grains and the M1 bullet put ten shots in four inches with a load of fifty grains.

R.A. No. 9½ primers were used with a number of loads. One charge was 61.2 grains of No. 4198 behind the M1 bullet. This spread six inches. The others were all with No. 4350 powder. A load of seventy grains put ten of the M2 bullets in two inches. This load was tried with the M1 bullet at 300 yards, making five-shot groups of five inches and two and one-half inches. Their impacts were ten and one-half and eleven inches lower than the 100-yard zero. Substituting the W.R.A. No. 120 primer this accurate load was tried at 100 yards and made a spread of only three-fourths of an inch.

Then the load was increased to seventy-five grains No. 4350 and the M1 bullet grouped into five inches, using No. 9½ primers. Increasing the charge to eighty grains increased the spread to six inches. Then the No. 120 primer was tried again with the load further increased to eighty-five grains and the spread came back to four inches. This combination, with the load back to eighty grains, was tried at 400 yards at normal temperature, but 1700 feet above sea level. The impact was eighteen inches lower than the 100-yard zero. The ten-shot group measured fifteen inches, but three shots had been called out by the shooter and marked. Two of these flyers made it a nine-shot group of ten inches and, without the three, a seven-shot group of seven and one-half inches.

A load of seventy grains No. 4320 was tried with the No. 120 primer and seventy-seven grains of 4064 was tried with the No. 9½ primer. Both made five-shot, five-inch groups at 100 yards with the M1 bullet.

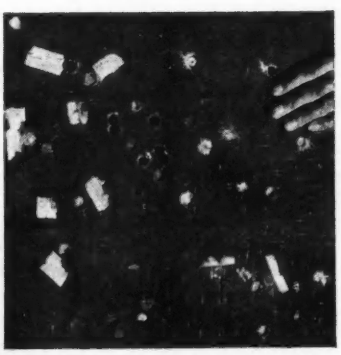
Some of these loads and others were then tested with the *fore-end screw turned in tightly*. With No. 4350 powder, sixty-six grains was too small a charge to burn well behind the M1 bullet, but it made a group of three and one-half inches. Using the same 9½ primer sixty-eight grains improved the accuracy to two inches spread, and seventy-four grains made two and one-half inches. Then the No. 120 primer was tried with seventy-two grains and the spread was three inches, while seventy-seven grains put ten of the M1 bullets in two inches. Seventy-eight grains put fifteen shots in three inches. Two shots were called out, the remaining thirteen measuring one and three-eighths by one and one-half inches. A load of eighty grains opened the group again, to a spread of six inches. Substituting the No. 9½ primer brought it back to five inches spread, and then adding five grains more powder reduced the spread to four inches.

The Western No. 8½ primer was also tried with eighty-two grains which spread five inches. When this combination was cut six grains, or to seventy-six grains, it put eleven of the M1 bullets into two inches. One was called out and refired, the other ten measuring three-fourths by one and five-eighths inches. The 220-grain Silvertip was tried with seventy grains and the No. 120 primer. It put six shots in seven-eighths by one and three-fourths inches.

With other powders the M1 bullet gave mediocre groups at 100 yards. A light load of twenty-four grains No. 4227 and the No. 115 primer made a group of two and one-half by two and five-eighths inches. With the No. 9½ primer and forty grains of 3031 it spread three and one-half inches. Seventy grains of 4064 and the same primer spread the group to five inches. With the same load of 4320 and Western No. 8½ primers the spread was six inches. With No. 9½ primers forty-three grains of HiVel No. 2 put five of six shots in three-fourths by one and one-sixteenth inches, and twenty-eight grains No. 4759 made a spread of one-half by one and three-fourths inches.

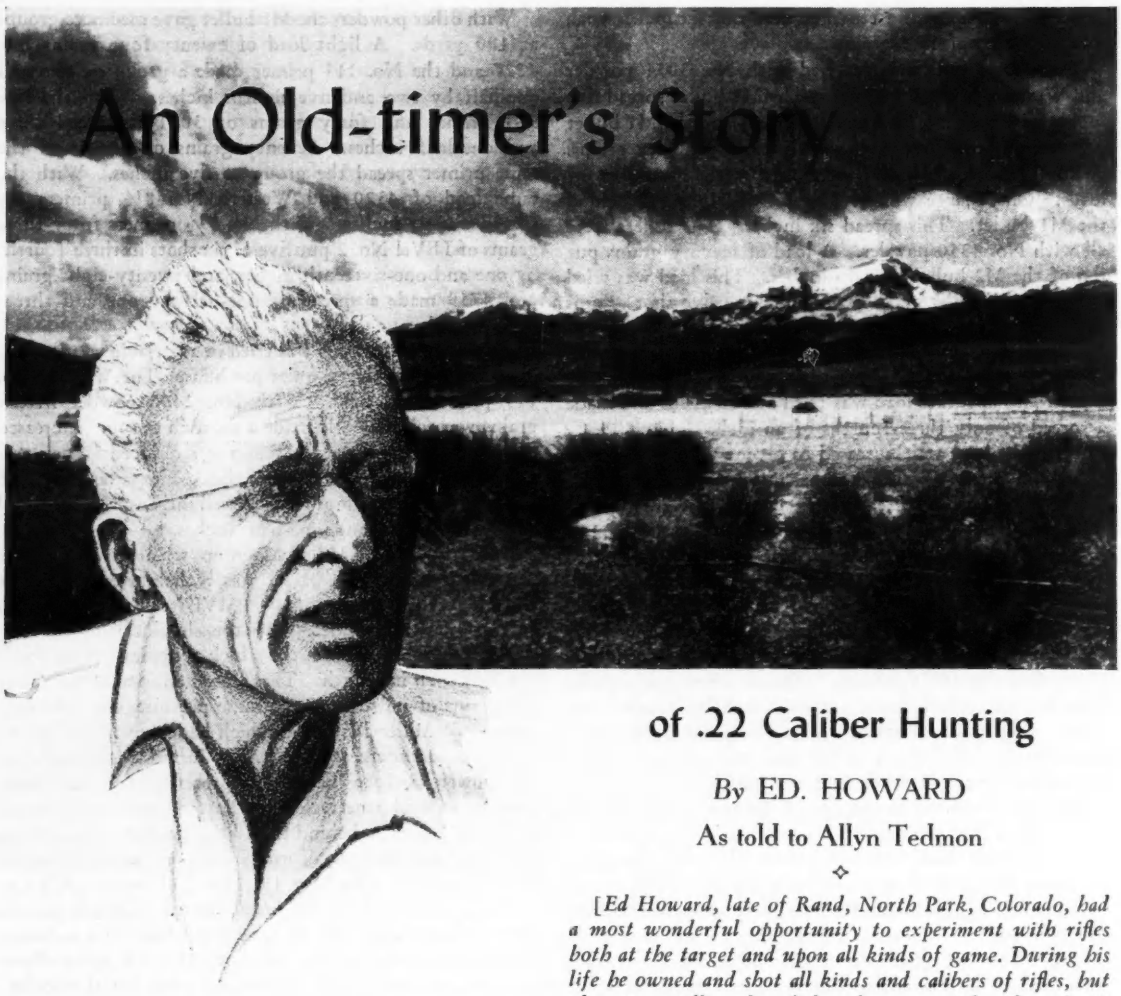
A series of light loads was tried in a variable wind, ranging from ten to thirty miles per hour. The W.R.A. No. 115 primer was used. With No. 2400 powder fifteen grains was too little It made a six-inch group. Increased to twenty-four grains, the group was reduced 50 per cent to two and one-half by three inches. The same weight of No. 4759 powder improved this slightly, or to two and one-half by two and one-half inches.

Recently a .250 Miller Magnum with ten-inch twist and twenty-four-inch barrel was rechambered to accept the practically taperless .300 "PMVF" case, necked down to take the .257 bullet, with the shoulder moved back about one-eighth of an inch, which provides a neck about one-half inch in length. This allows an increase of about ten grains of powder, at the same pressure, over the previous .250 Miller Magnum, which had been necked down from the *standard tapered* .275 Belted Magnum case. The power has been increased appreciably as indicated by the greater steel penetration and flatter trajectory. Seventy grains of No. 4350 behind the 100-grain Barnes S.P. bullet gave the following uniform instrumental velocities at seventy-eight feet on May 19, 1943: 3374 f.s., 3378 f.s., and 3365 f.s., and second instrumental velocities at 128 feet, of 3341 f.s., 3291 f.s., and 3289 f.s. This indicates an average muzzle velocity of about 3550 f.s. when allowance for penetrating the screens and other initial velocity-loss factors are compensated for. It shows an indicated remaining velocity at 400 yards about equal to that of the old .25-35 at the muzzle. This should make this a most desirable rifle for all American game up to the size of deer. A fourteen-inch twist and/or a longer barrel would, of course, increase velocities correspondingly.



RIGHT: Homogeneous bullet-proof armor plate, toughest known, half inch thick, penetrated by expanding bullets from .250 and .300 PMVF. All of the .22 Super-velocity Armor Piercers failed.

LEFT: Same steel pierced by all bullets (110 to 220 grain) fired from .300 PMVF.



of .22 Caliber Hunting

By ED. HOWARD

As told to Allyn Tedmon

✧

[*Ed Howard, late of Rand, North Park, Colorado, had a most wonderful opportunity to experiment with rifles both at the target and upon all kinds of game. During his life he owned and shot all kinds and calibers of rifles, but this story tells only of his shooting with rifles of .22 caliber. So far as I know, Ed never owned a shotgun. He shot everything with a rifle. The rifle was in reality his very life and right up to the day of his passing, December 11, 1942, his interest in rifles and rifle shooting never wavered. Ed was a real Westerner and if there ever was a simon-pure, bred-in-the-bone rifleman, it was Ed Howard. Here is his story.*]

✧

I HAVE USED BOTH rim- and center-fire .22 caliber rifles for nearly fifty years and, having lived my life in North Park, Colorado, I had the chance to hunt all kinds of game that should be shot with a rifle. .22 caliber rim-fire cartridges are generally considered big enough only for the smallest game and for target shooting. In my time, however, I have shot pretty nearly everything that wears hair with them. I don't want to be misunderstood as recommending this Long Rifle cartridge for the larger game, yet it is bad medicine if it hits the right spot. I literally wore out several of those fine little .22 caliber Marlin repeaters.

My first center-fire .22 caliber rifle was a .22-15-45 Center-Fire Winchester single shot, acquired when I was seventeen or eighteen years old. After shooting at jack-rabbits, gophers, and the like all day, I'd sit up nearly all night casting bullets and loading up a new batch of cartridges. I shot this rifle a lot. While not so accurate, it was a good killer and I bagged a wagonload of small stuff with it, as well as quite a number of coyotes.

Following the .22 Winchester Center-Fire rifle I tried out four different .25-20 Marlin rifles. One of these was very accurate and about 1906 I put a 4-power Sidle scope on it. Shooting the standard black-powder load this particular rifle would keep its shots in a five- or five-and-one-half-inch group at 200 yards on a still day. But I was not satisfied with the .25-20 Repeater cartridge so I bought a Marlin .25-36 rifle and fitted the John Sidle scope to it. I had several of these .25-36 Marlin rifles and found them very satisfactory. With them I killed many coyotes, and some deer and elk. But they lacked what I dreamed of as a perfect coyote rifle.

In the spring of 1910, I think it was, I saw an article in a sporting magazine telling all about the then brand new .22 Niedner. I sat right down and ordered one, but it was fall before it arrived. This rifle has a 26-inch barrel in a Winchester single-shot action. I shifted my 4-power Malcolm scope to it.

The .22 Niedner cartridge was the .32-40 case necked down to .22 caliber. The bullet was made by Niedner from a .22 rim-fire short case taken from the machine

before being headed up. It weighed 60 grains and had a pointed bare lead tip. The load Niedner recommended was 25 grains of Lightning and he claimed a velocity of 3300 f.s. I guess it had it, all right. This rifle shot so differently from my previous ones that I had to spend some time getting used to it before I could do any good with it. It added a good 100 yards to the sure coyote range of the .25-36 Marlin and was somewhat more accurate, shooting a four-inch group at 200 yards on a good day. The .25-36 Marlin was always deadly on coyotes up to 200 yards and if I could get a good hold on one I figured I could kill it. The .22 Niedner would hit them mighty often up to 300 yards.

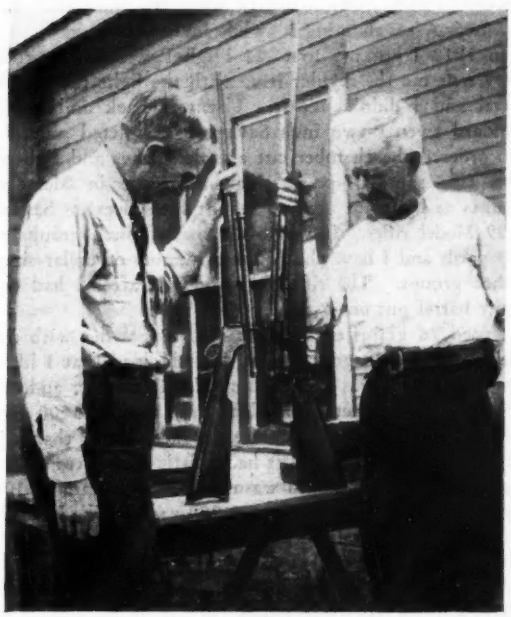
I killed sixty coyotes the first winter I used this .22 Niedner rifle (a photo of this rifle will be found on page 4 of the February, 1939 issue of THE RIFLEMAN) and on the first twenty I never made a miss. This is the best record I ever made. I missed the twenty-first coyote at about 300 yards. My record book shows that the first forty-five coyotes on the list were hit at ranges from fifty to 616 yards. The average was 278 yards. Ten taken as they come run, 250, 250, 110, 200, 150, 300, 300, 230, 320, 550 yards.

I killed a number of wolves (big lobo wolves, not coyotes) with this rifle. One I hit three times in three shots. The first was a running shot at 100 yards; the next running at 300 yards, and the third standing at 300 yards. Another time, during the winter of 1910 or 1911, my brother, H. L., and I were following a pair of large wolves up a timbered ridge; we were mounted and the snow was pretty deep. I had the .22 Niedner and he had a .25-36 Marlin.

Suddenly I saw one of the wolves, the female, back-tracking. She stopped behind a thick bunch of wild currant bushes perhaps a hundred yards off and as I could outline her through the brush, I took a shot. The little bullet somehow got through the brush and hit her in the ham, breaking the bone but not disabling her. We ran out to the edge of the ridge, saw the wounded one, and way across the canyon some 400 or 500 yards stood a very large male. I sat right down in the snow and fired several shots at the male, all running. One hit him through the muscle of a front leg cutting a large artery.

We followed the female about half a mile and killed her and when we came back to where the male had been hit we found where he had lain on a snow drift, at least eighteen inches deep, and the blood from his wound had melted the snow clear to the ground. We went on only a short distance when we found and killed him too. My brother would not shoot at this wolf across the canyon as he considered it out of range for his gun.

This .22 Niedner was a reloading proposition and I had to get all my bullets from Niedner. They were a base-band style that sat in the case only about one-sixteenth of an inch, the front of the bullet projecting up into the rifling to where the lands touched the band. The rifle was chambered very tightly and the cases didn't expand so there was no resizing to it. The bullet was a good killer and was just about right for coyotes but would tear them up pretty badly on close shots, especially with a slashing hit. I killed several deer with this rifle but as I recall they were all close shots and were taken while coyote hunting. I used a bigger gun on deer.



Ed Howard (right) and author Tedmon compare Ed's first high-velocity .22, the original Niedner, with his last, a Swift.

Another time I well remember was once on a terribly cold morning when I was riding up Illinois creek from the old Baldwin ranch before sun up. Glancing ahead I saw four coyotes coming down the creek toward me. I slid off my horse and sat down in the snow. It was so blamed cold that I nearly froze as those four coyotes jogged closer and closer to me. Finally when they were 150 or 200 yards off I pulled off my right mitten, leveled down on the leader and hit him. When I tried to reload I couldn't get the cartridge into the chamber, the metal of the gun seemed to burn my fingers. So I had to give it up and watch those other three coyotes run off.

Along about this time Charles Newton, whom I knew very well personally (*Ed and Newton were joint ballistic experts for one of Colorado's most famous murder cases*) sent me a new rifle he had just made up to take a Krag case necked to .22 caliber. (A photo of this rifle will be found on Page 24, March, 1936, issue of THE AMERICAN RIFLEMAN). This rifle was built on a Stevens Scheutzen, Jr., Model 44½ action. The barrel was a regular single-shot Stevens barrel bored for the .22-15-60 Stevens

Ed (right) resting at lunch time with two neighbor hunters.

cartridge but rifled .001 inch deeper than normal. The load he recommended was thirty-two grains of Lightning powder and a seventy-grain bullet he made. He estimated the velocity at 3276 f.s. and the rifle was very accurate.

I remember that I broke into print in old Arms and The Man in the June issue of 1911 or 1912, I don't recall which, where I gave pictures of some groups I had shot at 200 yards. The largest measured 4½ inches and the smallest 3¼ inches, the average for the eight groups shot was 3¾ inches. At 400 yards I shot one group of 5¼ inches, while at 500 yards the rifle gave me two groups of 9¾ and 10¼ inches respectively. That rifle was equipped with a Malcolm scope when it came to me. It was a powerful and accurate outfit, far too powerful for coyotes. After shooting it awhile I sent it back.

In 1912 I got my first .22 High Power Savage rifle. They sent me the regular issue with the light take-down barrel and I didn't like it. I sent it back and had a standard twenty-two inch Savage barrel fitted solid. I also ordered the chamber cut a trifle shorter and tighter. This rifle sports 5-power Malcolm scope in Malcolm mounts as Malcolm used to mount his scopes on Savage 1899 Model rifles. It will easily make 2-inch groups at 100 yards and I have shot quite a number of dollar-sized 5-shot groups. The rifle did very well after I had the heavy barrel put on it.

I used 26 grains of du Pont No. 18 powder with the regular Savage 70-grain bullet, but the load that I liked best for coyotes was 28 grains of No. 18 powder and the 59-grain Reed bullet. This load gave around 3000 feet velocity and was very accurate, in fact, better than the 70-grain bullet. This outfit had a little higher trajectory than the .22 Niedner and wasn't quite so certain at 300 yards but it was very good up to 200 yards. The Niedner bullet seemed to retain its speed better and the wind didn't affect it as much out at 300 yards as it did the Reed bullet. I couldn't interchange bullets, however, as the Niedner was a base-band bullet.

I used the Niedner for a long while after getting the Savage but finally went over to the latter as the single-shot Niedner was such a nuisance to load in cold weather. The .22 High Power is a mighty fine little gun. Both my boys and I have found it very good and while we used it mainly for coyotes, we found that it has as good if not better penetration on deer than the Savage .250-3000.

Understand, out where I live we have plenty of wind. One day when the wind was going its best I jumped a coyote and chased it. After a short run it stopped to look back. I jumped down off my horse and fired holding off six or eight feet for the wind; but the coyote ran on down the ridge. I followed and finally my boy, Roy, shot it with his .22 High Power. We found that my bullet had gone through both hips but it had never opened up at all due to the fact that 500 yards is a long way off and the bullet at that range has lost much of its velocity. When we used to drive a ridge both ways it took fast shooting and you killed them running or you didn't kill them. The boys and I always use scope sights and in fact I haven't used anything else for nearly thirty-five years.

My coyote record for 1913 for the .22 High Power Savage shows that the first sixteen coyotes were killed at 200, 303, 355, 112, 165, 305, 185, 170, 300, 75, 200, 108, 62, 400, 125, and 200 yards, all paced or very closely estimated. Shooting as much as I did in those days I got so I could estimate the distance mighty close. I always kept the .22 High Power sighted for 300 yards. I could give a lot more figures but these will give you some idea of what we were doing with the .22 caliber high velocity rifles twenty-five years ago. I find so many men who don't know that these 3000 f.s. velocity rifles are not new by any means. I have been using them for over thirty years. This .22 Savage High Power was very popular in my country.

About 1914 or thereabouts, Charles Newton sent me one of his first .22 Newton High Power bolt-action rifles. This is a mighty fine little rifle and I like it very much. I shot quite a lot of coyotes with it, sighted by means of a 6-power Malcolm scope. The load I used most was 32 grains of du Pont No. 18 powder and the Savage 70-grain soft point bullet. This load gave over 3000 f.s. velocity and was very accurate and a good killer. The first twenty coyotes shot with this rifle were hit at 150, 275, 250, 370, 425, 200, 210, 380, 240, 200, 130, 230, 170, 205, 350, 25, 50, 125, 250, and 175 yards.

I got my Winchester .220 Swift in 1936. I like it. Of course, it has a Malcolm scope mounted on it. For a coyote gun it is in my opinion the best one on the market. I reload most of my Swift ammunition with 38 grains of du Pont No. 4064 powder and the Sisk 55-grain bullet which is way ahead of the regular factory bullet. I also use the 40-grain Sisk bullet on coyotes and like it better for this purpose than the 55-grain bullet. With 42 grains of No. 4064 powder behind the 40-grain bullet, I get about 4000 f.s. velocity. This is a freak load. Did you ever before hear of the powder charge in a load exceeding the bullet in weight? Of course, you get a whole lot of bloodshot meat with such a fast bullet, but for coyotes this drawback doesn't have to be considered.

On close up coyotes these fast .200 Swift bullets rip and tear in bad shape, especially on a slashing shot. I find they are much more destructive than any of the other .22 caliber high power guns I have used, but not as bad in tearing up a coyote as either the Savage .250-3000 or the .257 Roberts. Prairie dogs have very tough hides but when hit with a 40-grain bullet going 4500 feet per second it just atomizes them. They simply explode. Even the grass is blasted out by the roots where they were standing. It's a funny outfit, it blows up on a prairie dog but will shoot through a deer.

Now I have given you a few of my experiences with .22 caliber rifles and I am afraid that you will think I am one of those hunters who never miss, or try to make a fellow believe they never do. But I am just like everybody else: I have my bad days.

One time when shooting the .22 Niedner I sneaked up on a young, unsuspecting coyote out in a meadow catching mice. I really felt sorry for the little fellow as it looked like plain murder. But I was getting paid for killing them and could also use the money his hide would bring, so I proceeeded to level down on him at about seventy-five yards. He didn't know that any danger was near and I guess there wasn't for I missed him clean the first shot. Then I fired two or three running shots and hit him in the same place. By that time I stopped feeling sorry for him.

Another time I was out with the .22 High Power Savage. There was a notorious stock killing lobo wolf called Three Toes working that country. The stock-

(*Continued on page 26*)

Random Shop Notes

By CLYDE BAKER*

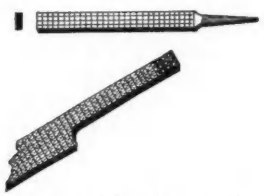
The Chequer File

The chequer file has a very definite place in the gun shop. It is made by the American Swiss File and Tool Co. of Elizabeth, New Jersey and is sold by most tool stores handling this fine line of merchandise. It is also listed by Stoeger in two or more foreign makes which are probably not now available.

The teeth of this file are cut straight across the face of it, and are broken by evenly-spaced parallel lines running lengthwise. They are made in several spacing widths which are all useful for one job or another.

This file is a natural for marking straight-line matting across the surface of a receiver bridge, a barrel ring, barrel rib, or a front-sight ramp. They do the job beautifully and with great precision. But, remember that these files are markers only. Don't try to finish up the job with them as this is the work of the three-square needle file. Two or three light, careful strokes are sufficient for a layout. Then finish up the process with the needle file.

Where surface shape and position permits its use, this file is a honey for laying out diamond checking. They don't do so well on many curved surfaces, such as bolt knobs, however, as they are about half an inch wide. On the slightly curved surface of certain ramps, for example, they might well be considerably narrower. For such work, I generally grind down a couple of inches of one end to a width of about one quarter of an inch. (See cut.)



Chequer file. Lower, end ground off to ¼" width.

The more familiar you become with this file the more uses you will find for it. For example, for laying out the teeth on a checking tool or matting punch it is fine.

Stippling

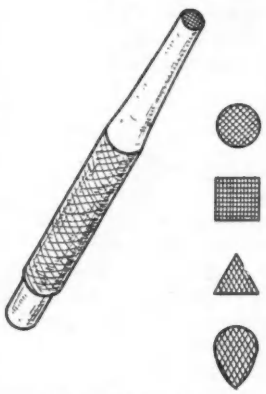
ON MANY CUSTOM JOBS, finely executed stipple matting is often deemed preferable to checking or cross-line matting. And stippling is often combined as a part of the engraving on the finest guns. It's like the self-evident hand stitching on a finely-tailored coat which shouts "hand work" in no uncertain terms.

Stippling punches should be made about as shown in the accompanying drawings. They should not be smaller than three-sixteenths of an inch, nor larger than three-eighths of an inch in the largest face dimension. Excellent material for these punches is provided by old drift, prick, or center punches, or even small cold chisels of good quality will serve very nicely.

*Published posthumously.

In making these stippling punches the temper of the piece to be used must be drawn by heating to a bright red. Then clamp the point quickly between two pieces of pine wood in a vise. When this cools it will file readily. Round, square, triangular, and teardrop shapes will probably meet all the requirements of ordinary stippling.

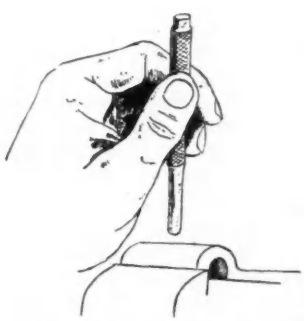
The teeth are formed as square pyramids. Mark your spacing with a chequer file and then form the teeth with a three-square needle file. Then harden the tool by heating it to a bright cherry red and quench in water. Polish off the sides and temper by drawing to a medium straw brown in a blow-torch flame and dousing in cold water on which floats about a half inch of linseed oil.



Stippling punch with suggested head shapes.

Steels vary in hardness and toughness. If a point chips off, anneal and recut, harden and draw slightly more, say to a brown verging on purple. If the points become battered, recut, reharden, and draw slightly less, possibly to a medium straw or very light brown.

In using the punch on a stippling job, hold it slightly above the work as shown herewith, keeping the wrist and fingers stiff. Strike light rapid blows with a light hammer, constantly rolling the punch slightly in the fingers to prevent the formation of any definite pattern. The stiff wrist and fingers should act as a spring constantly bringing the punch back into position for another hammer blow.



In stippling hold the punch with wrist and fingers stiff.

In laying out the area to be stippled, as the top of a receiver or barrel ring or a ramp, either single or double border lines should first be cut. For this, use a checking spacer hardened for cutting steel (i.e. hardened at cherry red and drawn to a medium straw color) and finish the

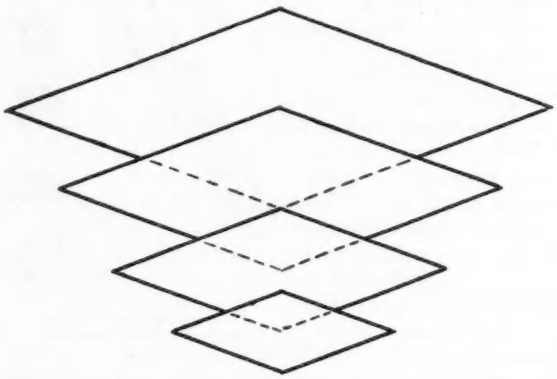
lines with a three-square needle file. Practice will enable you to stipple right up to the line without cutting over it. After stippling, clean up the border lines again with the needle file.

This sort of work always "blues" beautifully by any method and adds "that certain something" to the finished job. It is non-reflective when used in front of sights.

Diamonds

A set of DIAMONDS for laying out checking designs will be found very useful to the gunsmith, amateur or otherwise. These should preferably be made of some transparent material such as the windows from old automobile curtains, heavy cellophane or such. Or if a transparent material is not available use a piece of thin, easily-bent sheet metal, or even cardboard.

The sizes should be evenly graduated each about a quarter of an inch larger all around than the next smaller.



Checkering Diamonds

Make them from two and three-quarters to three times as long as they are wide. Greater length than this makes the work look coarse and less length makes the diamond too square and not so attractive.

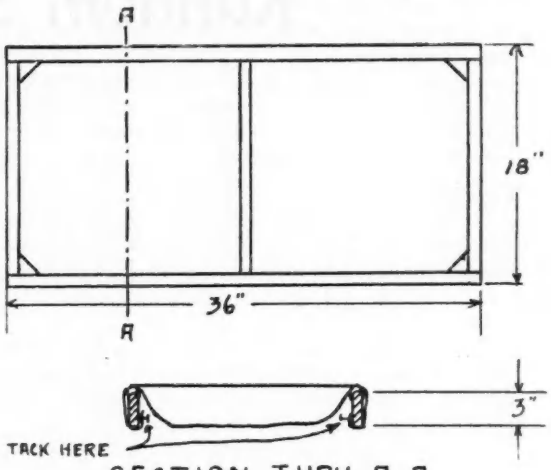
The smallest of these diamonds will prove useful in locating the blank area around a screw or escutcheon in the fore-end. The larger ones will form the V-ends of the complete pattern.

Gunsmith's Necessity

OUT OF MANY YEARS of gun work, I have developed an accessory to the workbench which is virtually indispensable. It's nothing more nor less than a padded, canvas-covered frame on which to lay a rifle or gun for dismantling without the ever-present danger of losing small screws, springs, or other tiny parts. In addition, it offers protection to engraved and blued receivers and barrels from otherwise unavoidable knocks and blows which never contribute to their beauty.

Dimensions of this tool are more or less optional but mine is eighteen by thirty-six inches and three inches deep. It is made of soft pine, about one inch thick. Corners are secured by screws or angle irons or any convenient method offering reasonable assurance of permanence. I've found that one cross member in the center is of considerable help in stability.

The upper edges and corners of this frame are rounded and thinly padded for protection of polished or blued parts and then covered with WHITE canvas. This canvas is large enough to cover the frame loosely and extend



A padded, canvas-covered tray on which to dismantle guns.

completely around. It is tacked to the inner side of the frame as shown in the attached drawing. Not too many tacks should be used. This white canvas doesn't stay white long on my bench and I don't think my bench is any worse than the next one where dirt and grease are concerned. It follows that the fewer tacks used to hold the canvas, the fewer there are to remove when the canvas needs a wash. Cleaned and rewhitened, the canvas shows up all parts nicely. It acts simply as a cloth basin into which small parts and tools may be dropped, intentionally or accidentally, while one is working.

Me? I wouldn't be without it.—C. B. BOGLE.

An Old-timer's Story

(*Continued from page 24*)

men had put up a bounty of $175 on him and I was out after that $175. I was on snow shoes and after I had walked my fool self about to death I ran onto him in a deep wide draw, or what some of you might call a canyon. As he had a long way to go before he would be out of sight I figured that right here is where I collect that $175. I opened up on him running at about 250 yards with the Savage and finished shooting when he went over the hill at about 600 yards. Firing twelve shots at him all the damage I did was to draw a little blood on one of his crippled toes. I was using a Lyman rear aperture sight at that time and do have this as an alibi; but no alibi has ever yet helped me collect bounty.

Big game can be killed with these .22-caliber high-velocity guns but I use a Winchester .270 for deer and elk. Big game is too scarce now to take chances.

I have found the .22 caliber guns mighty fine little rifles for general use and especially for coyotes and the like. Today anybody liking the .22 caliber should have no trouble locating just the gun he wants.

HITS AND MISSES

By E. B. MANN

IT'S THE HITS that count. But sometimes the misses, too, make history, just as "the big one that got away" is the climax of many a fisherman's story.

Throughout the history of projectile-throwing weapons, stories of miraculous hits and miraculous misses stand out; stories of men who came unscathed through what should have been deadly fire; of men who died from shots that should, by all the laws of chance, have missed.

Few misses on record are more miraculous than those "scored" that morning in the spring of 1882 at Iron Springs, some thirty-five miles west of Tombstone, Arizona, when Curly Bill Brocius and eight of his outlaws "cut down" on Wyatt Earp and his four companions.

Curly Bill was one tough *hombre*. Brocius may not have been his name. His birth, antecedents, and early history are veiled in mystery. Even the time, place, and manner of his death as related here are disputed. But that he was *muy malo*, deadly with guns, quick-triggered, and unpredictable is fact, indisputable, and proved.

Curly Bill was a robber baron. He first appears in Arizona history as a cattle thief, wilier than most, more successful, but not otherwise remarkable in a day when a "wide loop" was providing the foundation for many a famous and subsequently respected brand. Curly rode often with thirty or more stout fellows behind him, and could recruit a hundred if they were needed.

Millions of longhorns grazed the vast ranges of Chihuahua and Sonora, just south of the Border, and Curly Bill drove them literally by the thousands to ready markets waiting in Arizona. That he was no pint-size bandit is proved by the fact that he was the subject of Congressional discussion and the cause of sharp correspondence that seriously endangered the friendly relations of the United States and Mexico.

Dick Lloyd got drunk one night in Tombstone. Tombstone was not entirely unused to drunkenness and when Lloyd started shooting up the town from the saddle of a running horse, Tombstone citizenry merely cleared the streets and let him enjoy himself. But drink was Dick's undoing that night, in spite of Tombstone's tolerance; for had Dick been sober he would never have swapped his jaded horse for Curly Bill's fine one, and he certainly never would have ridden that borrowed horse into the saloon where Curly and a few of his boys were playing poker. Dick knew better. Curly was his friend, and Dick knew the uncertainty of Curly's temper.

They buried Dick the next morning. Bill paid for his burial, including the quart of whiskey they buried with him to ease the thirst of his long journey. Curly said later, "Dick was a good enough feller, sober. Drunk, though, he had a helluva sense o' humor!"

The affair at Skeleton Canyon is a case in point, too, of Curly's toughness. Twenty Mexicans, their pack burros laden with silver, came riding northward one morning. Curly met them in Skeleton Canyon, gave them a courteous greeting—yanked two guns and killed two men before his purpose was suspected. Curly's men joined in from both rims of the Canyon, with rifles. They killed nineteen Mexicans that morning. One man escaped. . . . And Curly Bill and his merry men spent seventy-five thousand "'dobe" dollars in riotous living.

Curly was a better-than-fair hand with a six-gun. He ended Fred White's reign as town marshal of Tombstone by working the old "road-agent's spin" to stick a slug in White's belly when White asked for his weapon. That "spin" consists of offering a gun butt-foremost, one finger inside the trigger guard, then spinning the gun on that finger and firing it as it comes into position. Curly must have been very good at it. He did it so deftly that White himself—and Wyatt Earp, who was a witness—thought it an accident. In fact, only White's deathbed statement and Earp's testimony saved Curly, that time, from lynch law. But Earp's testimony in his favor failed to offset, in Curly's mind, the fact that Earp had "bent a gun" over Curly's head in that fracas, and Curly hated Earp with a deep and bitter hatred.

They met again, those two, at Iron Springs, that bright spring morning that provides the setting for this story.

Earp had four friends with him. One was the redoubtable Doc Holliday—he who forsook the profession of dentistry for a career as a gunman: to make cavities, not to fill them.

It was hot. Wyatt Earp let his coat swing open and loosened his gun belts. He was heavily armed, with a rifle in its saddle scabbard and a shotgun on the horn before him. One of the two Colts in his hip holsters was his pet, his "Buntline Special"—a Frontier Single Action specially made with a twelve-inch barrel and given to Earp by Ned Buntline, the father of the "western" story.

Iron Springs looked empty as they approached it. The spring itself was hidden by a steep bank, jaggedly eroded. Beyond was an old shack with a grove of cottonwoods beside it. But Earp was wary. He dismounted, shotgun in hand, and walked forward, leading his horse.

Two men stood up behind the bank not thirty yards

(*Continued on page 29*)

PACKING THEM OUT

By BILL McCANDLASS

WE WERE YOUNG, and it was our first buck. Being our first, it looked as big as an elephant. We glowed and gloated. We bragged and got magnificently gory while gutting the quarry. And then came the problem of packing that buck out.

We wore blisters on our hands and dulled our knives hacking down a jack pine pole. We had no rope, but my partner was wearing suspenders, and I a belt. With these and our handkerchiefs we got that buck reasonably well attached to the pole. Then we struck out.

Right away difficulties developed. That limp deer carcass sagged and slipped. It swung from side to side, throwing us off stride. The pole gouged and bruised our shoulders. Going up hill the fellow in the rear got all the weight. Going down hill the fellow in front had to step lively to keep from being overwhelmed by an avalanche of deer, pole, and hunting companion. Denied their rightful support, our britches developed treacherous tendencies. Our troubles grew.

There was one narrow ravine bridged by a fallen sugar pine. In our youthful optimism we tried the crossing. Halfway over something went wrong. There was a hell of a ruckus as deer, pole, guns, and youthful hunters landed in the bottom of the ravine with a crash. Luckily nothing worse resulted than an additional crop of bruises, scratches, skinned elbows, and barked shins.

But we stayed with it. And finally we got that buck home. We were slap-happy with weariness. Hanging on to that pole, carrying those guns, holding up those britches, and battling the swinging weight of that buck uphill and downdale was some job for two kids; but we got there, by gum! So did the buck. But there are easier ways of packing game!

A horse is the best solution, of course. But horses are not always available, and a man has to do the best he can with the equipment at hand.

Be wary of packing your deer out on your back, especially if you are in country where does, as well as bucks, are legal. Some rum-dum half-wit may take a shot at you! However, if you are in country where a legal deer must be a buck and must have at least one clearly defined fork, and if you have a sublime faith in other hunters' observance of said fork before pulling the trigger—or if you just aim to get that buck home, regardless—then a back pack of some sort is a very satisfactory way, providing the weight of the deer will allow one man to handle it. The so-called Indian pack is the best of the one-man carries, and here is how it is done.

After you've gutted the quarry—and remember that a slit not over a foot long provides plenty of room to gut a deer thoroughly if you work with care and common sense—cut a slit through the web of hide between the big tendon of the hock and the hind leg bone. Slit both hind legs in this manner. Then slit the hide, down the front of both front legs from the knees about halfway to the knuckle joint. Work the hide free enough so you can cut through the knee joints, taking care NOT to sever the heavy tendon running down the back of the leg. Peel the bone away from this tendon and the hide, as far as you have slit the skin.

Now push the peeled bone and attached hoof of the right front leg through that slit in the web of skin of the right hind leg, from inside to outside, and turn the bone and hoof at right angles to the slit, thus locking it in that position. Do the same thing with the two left legs. This pulls the deer into a hunched-up position and the deer's legs make the loops for the carry.

Prop the carcass up in a sitting position and back up to it. Your right arm goes through the loop formed by the deer's right legs, left arm through left legs. Swing around on to your knees, bringing the carcass with you. You'll find the weight riding high on your shoulders, which is where you can carry the most weight, most easily. The head will fall forward and down over your shoulder and, by looping your arm about the neck and pulling down, you can control the head and horns.

The hind legs will now be sticking straight out in front of you, one on either side. Rest your gun across these and by pressing down here and keeping a snug hold about the neck with your arm, you aid in keeping the weight well up on your shoulders. The thick muscles of the upper part of the front legs form cushions for your shoulders. Result: a snug, close-fitting pack that enables one man to carry and control more weight of dead deer than any other I know.

When you get into the big buck class, like mule deer, transportation becomes a real problem. Weights of deer are grossly exaggerated, as any old-timer knows. Hunters

are prone to quote verbal weights that seldom hold up on a set of steelyards or other honest scales. But a deer dressing around 200 is a staggering thing to handle. If you don't believe it, take an obliging friend of about that weight, jackknife him over your shoulder and start out across country with him! I've skidded mules out on the snow, hauled them out on crude *travois*, and packed 'em out in pieces. But a man learns by experience, and here is my own solution to the problem.

I have a small, light, but stout canvas rucksack. In it are the following: one small, short-handled camp hatchet with leather sheath; one homemade meat saw, made of a hacksaw frame and a section of regular meat saw blade; one short, standard butcher skinning knife and one coarse stone for honing, both leather sheathed; a coil of light, stout rope; and, finally, several meat sacks, made of light canvas, stoutly sewn, about twice the size of regular flour sacks, and much stronger. The whole layout, neatly packed, is light and easily carried. But it does solve the problem when you have a big fellow down, way back in the crags or the deep woods, several miles from camp.

So equipped, you can butcher the quarry right there, quarter the carcass, put the meat into the sacks, and pack that deer out, a piece at a time. Hang those loaded sacks up in a tree and go back after it next day, if necessary. This way, you can get *all* of that deer to camp, in good shape, without breaking your back or your heart or both.

Of course, as I said before, a horse is the best solution. But use your head here, also. Carry with you a couple of good stout straps with strong buckles. When you have the deer on the horse, across the saddle, slit the hide between the tendons and the bones of all four legs, just above the dewclaws, slide the straps through these cuts and fasten to the cinch rings. You can really stretch that deer then and the straps will stay put and so will the deer. Better carry, also, enough rope to secure the head and horns where the horns can't jab the horse. Forget that, and let a sharp tine start jabbing the bronc in a tender spot and, man, things can happen!

While we are on the subject, here are a couple of other hints. Don't open a deer like a bed sheet for the simple task of gutting it. Keep the opening small, and sew it shut again with cord. This keeps dirt and flies out.

Another thing. Don't cut the throat unless you happen to pull a spine or head shot where there is no chance for the deer to bleed properly. In this case, stick the deer carefully, as you would a hog, and lay the carcass at a slant, head down, so it will drain. But if you have shot the quarry anywhere in the heart or lung cavity, or even farther back, throat cutting is unnecessary. Almost certainly your bullet will have ruptured an artery somewhere, and the animal will be bled completely inside, as you'll find when you open it. Ninety per cent of the time, cutting the throat from ear to ear only ruins a cape you might have liked for mounting.

Whatever you do, *DON'T* wash out the cavity. I know of no surer way to cause a deer to sour and spoil. Let the blood dry and seal the torn meat.

Finally, add a couple of wool sacks to your hunting outfit. They add little bulk or weight, yet they will solve your problem when the day comes that you down a deer you can't pack out by any of these methods. Simply clean the deer, hang it, slide the sack up over the hung carcass and tie the neck of the sack securely about the holding rope. That done, you can sit back and relax. Such sacks are porous and will let the air circulate, yet will keep blow flies, yellow jackets, and such at a distance. The meat for which you've worked so hard is safe.

Hits and Misses

(*Continued from page 27*)

distant: Curly Bill and another. Curly swung a sawed-off shotgun to his shoulder.

Earp said he could see Curly's eye over those shotgun barrels. The gun blazed, and a double charge of buck tore the left skirt off Earp's coat where it flared out over the gun butt jutting up out of his left holster.

Earp's own shot was an echo to Curly's, double-barreled, blasting eighteen buckshot into Curly's body. Earp says Curly flung his gun from him, screamed, and fell.

It was only a few yards from the bank to the cabin. Pony Deal, who had been Curly's companion, was running. Earp reached for his rifle. But his horse was crazed and he couldn't reach it.

Seven men came boiling out of that old shanty and Earp heard the whine of rifle bullets around him. He jerked the "Buntline Special" out of its holster, wondering why Holliday and the others weren't shooting.

Doc Holliday and the others were running! It may have been the only time the venomous dentist ever ran from a gun fight, but this time he was startled. Earp was alone, dismounted, the target for eight rifles less than seventy yards from him.

He turned the Buntline loose at those eight figures among the cottonwoods and heard two yelps of agony. Two hits. He was snubbing his reins meanwhile, hauling his horse to him. His gun belts, loosened earlier, had slipped too low and he had trouble mounting. He switched guns, stabbing two more shots at the trees. A slug grazed the horn of the saddle within inches of his face and he smelled the stench of burnt leather.

He got into the saddle, finally; jerked his rifle out of its scabbard; poured three quick shots at targets half hidden by the trunks of the trees. He wheeled then, with bullets slashing around him. His left leg went numb.

"That was a great fight, Wyatt," Doc Holliday said as Earp rejoined his companions. "How bad are you hit?"

And that is the point of this story: Earp wasn't hit!

The horn of his saddle was splintered. His coattails hung in tatters. There were three holes through the legs of his pants, five through the crown of his hat, three through its brim. A bullet lay imbedded in the heel of his left boot, accounting for his leg's numbness. . . . But he was untouched!

Meanwhile, Earp's own first shot, unhurried and well-aimed, had scored. . . . Or—had it? Curly Bill's crowd denied it. In Old Mexico, the legend persists that Curly Bill settled down after that battle to a peaceful and law-abiding existence, to prosper and live to a ripe old age.

But Wyatt Earp never believed it. He said (and his companions swore) that Curly Bill died that morning at the rim of the Iron Springs basin. Be that as it may, Curly was never seen again in Tombstone; nor was his grave ever discovered.

SEMI-AUTOMATIC .250-3000

By WILLIAM B. RUGER

THE SAVAGE MODEL 99 has always been a popular hunting firearm, essentially because it possesses an extremely well-designed breech mechanism that gives the gun trim lines and fine balance. The manner of fastening the stock is highly conducive to accuracy and aside from the bolt action, the mechanism is simpler and has fewer parts than any other center-fire repeater made in this country. Furthermore, the manner in which the bolt is locked gives the breech sufficient strength to handle modern high-intensity ammunition. The rotary-type magazine has adequate capacity and does not require any projections on the exterior of the gun.

"The conversion detracts nothing from the looks of the gun; produces an auto-loader superior to most."

These characteristics, desirable as they are in a lever action, are especially sought after in self-loaders. It is a curious mechanical coincidence that their embodiment in the Savage 99 provides both an end and a means for converting this gun to a self-loader.

This conversion can be accomplished with only superficial changes in a few of the parts. The original finger lever is discarded; the projection on the lower tang, to which the lever is pivoted, is machined off, and a plain trigger guard provided in its place. On the upper, or inside of the lower tang, I affixed a small guide track which supports the rear end of the operating rod. These two changes constitute the principal alterations on the receiver and do not detract from its appearance.

The bolt remains essentially the same, the major alteration being in the shape, or path, of the cam slot which affects the opening and closing of the bolt. The sear and trigger mechanism is modified so that the gun will fire semiautomatically. The original magazine rotor spring is discarded, so is the pin, or shaft, on which the magazine rotates, as is the bushing which supports the forward end of this pin. In the self-loading version, the operating rod, which serves to operate the bolt in place of the finger lever, passes through the central bore of the magazine rotor, and serves as the axle on which the rotor turns. A clock type of rotor spring is located in the enlarged forward end of the rotor; this design permits the maximum diameter of the operating rod.

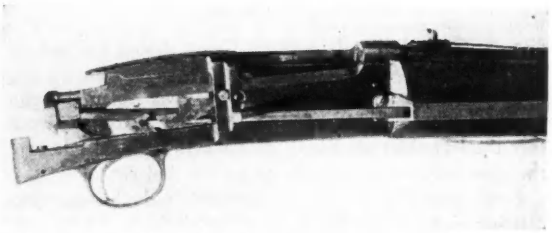
At its forward end, the operating rod terminates in a conventional gas piston which slides within a cylinder mounted beneath the barrel. At its rearward end, the rod carries a round stud (similar in shape and size to that on the original lever) which rides in the cam slot on the bolt. As the rod moves back under gas pressure, it lowers the rear end of the bolt to unlock it and carry it to the rear. The movements of the bolt and method of feeding the cartridges remain unchanged.

A long coil spring surrounding the forward part of the operating rod is compressed by the rearward movement of the rod and serves to throw the rod and bolt forward when the rearward motion is completed. On the right side of the fore-end, a track is provided to guide the cocking handle which is connected to the slide.

The essential effect of these alterations is simply that the original finger lever is discarded as the means for operating the bolt and is replaced with a reciprocating, gas-actuated rod which passes through the center of the magazine rotor. This rod forms a piston at its forward end, and is connected to the bolt at its rearward end. The strength of the action is unimpaired, and the design of the firing pin is such that it is mechanically impossible for the gun to fire unless it is properly locked. The performance of the existing model is surprisingly good in view of its relative crudeness.

In firing four or five hundred rounds, I have found it necessary to oil the cartridge cases to insure dependable extraction. Extraction is always a problem in gas-operated arms, particularly rifles, which have light moving parts which must travel at high speed. In the case of the Savage 99, a considerable degree of primary extraction is provided during the unlocking of the bolt. In fact the method of securing this primary extraction in the Savage is much the same as in the Browning Automatic Rifle.

The weak link of the extraction system in the model shown is the extractor itself, which is the original Savage part. While perfectly satisfactory in a hand-operated arm, its claw is entirely too narrow for use in a self-loader. When this extractor is replaced by one about twice as wide and mounted more strongly on the bolt, I am certain that trouble at this point will disappear entirely. There have been no other functional troubles nor have there been any breakages or wear.



Operating rod, forced back by gas pressure, opens the action.

Today, military weapons hold the center of the stage. We are producing a flood of tommy guns, Garands, M1 Carbines, and experimental weapons of advanced design. But some day we will be able to think about sporting guns again and I hope then to take this modernized .250 off the shelf. I believe that after this war there will be a great upsurge in the popularity of self-loaders for sporting purposes, just as there was a great increase in the popularity of bolt-action guns after the last war. If such a trend does come, this trim little self-loader, if it were made commercially available, should be right in step with the prevailing fashions in firearms.

Simplified Small Arms Ballistics

FOR THE SPORTSMAN AND SOLDIER

By the OLD COACH

V. THE TERRIFIC INSTANT

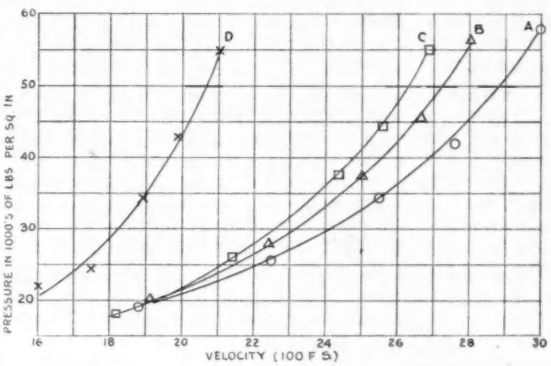
(Continued from November issue)

Increasing the volume of the chamber in proportion to the caliber obviously provides more space for a larger powder charge. More gas will pile up inside the case without a compensatingly larger opening for the escape of the gas. The situation may be compared to a water tank built to hold one hundred gallons and provided with a vent one foot in diameter. Let us assume this vent will empty the tank in five minutes. If we build up the sides of the tank so that it will hold 200 gallons (twice as much water as before), leaving the same vent, it will require twice as long (ten minutes) to empty. If we were to attempt to put enough pressure on the water in the enlarged tank to force the water out in the original time of five minutes, the tank would burst from the excessive pressure. We have the practical alternative of allowing the tank to take *twice as long to empty* or of *doubling the size of the vent*. In the gun if we enlarge the capacity of the chamber *without* enlarging the vent (caliber), we *must* give the chamber more *time* to empty itself of the increased volume of gas. There is only one way this can be accomplished in a firearm. We must use a powder which will burn more slowly than the powder used in the original smaller chamber. The slower combustion results in slower expansion of the powder gases so that they have more *time* to escape through the vent (the neck of the case). Because there is *more* gas it will naturally fill the bore for a greater distance, i.e., it will continue to *push the bullet* further down the bore. The result will be higher muzzle velocities without increased breech pressures.

The effect on pressures when changes are made in chamber dimensions from the standards established by the original designer were also discussed in the chapter "Cartridge and Chamber." The original designer allows certain tolerances in the dimensions of the cartridge and chamber. These standard dimensions allow the brass cartridge case to expand slightly when the charge is fired. The expansion not only provides a cushioning effect for the rapidly increasing pressures, it also allows the neck of the case to release its hold on the bullet. If the chamber is made smaller so that the neck cannot let go of the bullet in accordance with the original designer's plans, the effect is the same as though the bullet was held in the case by a too heavy crimp. Greatly increased pressures will obviously result.

Factor Number 6—erosion and abrasion in the throat and bore—have the same effect as a chamber which is too large at the throat or a bullet too small to fit the bore properly. Both erosion and abrasion (wear) enlarge the inside of the barrel. Throat erosion makes it possible for the neck of the case to expand too soon, starting the bullet on its way before proper pressures have accumulated in the chamber. Enlargement of the bore by erosion or abrasion makes it difficult for the bullet to seal properly the bore. Like having worn piston rings or scored cylinders in an automobile engine, inefficiency and irregular performance, due to irregular pressures, will result.

Factor Number 7—density of loading—has a material effect on pressures because it affects both regularity of ignition and speed of burning. "Density of loading" means the relationship between the total amount of space inside the cartridge with the bullet seated, and occupied by the powder charge. If we fill a two-ounce bottle with two ounces of water, then seat the cork so as to fill the neck of the bottle we have a "density of loading" of



V. **Curves showing the relation of velocity to pressure using four types of powder fired with identical components.** These curves show the importance of a continuing push on the bullet as compared with a quick, hammer-like blow. With pressure of 50,000 pounds a "fast" powder (Curve D) develops only 2,060 f.s. velocity. Slower powders give progressively better results (as shown by Curves C and B) and a powder properly designed for this cartridge develops 2,875 f.s.

100 per cent. If we put one ounce of water in the same two-ounce bottle and seat the cork in similar fashion, we have a "density of loading" of only 50 per cent. If we put that same one ounce of water in a one-ounce bottle, we again have a "density of loading" of 100 per cent. The size of the gun chamber controls the size of the *outside* of the cartridge case. Therefore, if one cartridge case is thicker than another, the *inside* of the thicker case will have less cubic capacity than the inside of the case made of thinner brass. Coincidentally, a powder charge of the same *weight* will more nearly fill the thick-walled case than the thin-walled one. The density of loading will be higher in the thick-walled case than in the thin-walled case; although the weight of charge is the same and the bullet is seated to the same depth! This is another excellent example of the variables that plague the ballistic engineer!

The seating depth of the bullet obviously affects loading density. The further the base of the bullet is seated down in the case, the less room remains for the powder. Inasmuch as the over-all length of a cartridge is definitely limited by the length of the magazine and chamber, the only way to accommodate a bullet which is longer than usual is to seat that bullet deeper than usual in the case.

BRIDGEPORT, CONN., DEC. 1943

Rifle

Possibles and Impossibles

by **FRANK J. KAHRS**

Among the many interesting letters we receive, we find, every now and then, one that deserves mention in the Column. The other day we had one from a regular reader of the column in New Jersey. It seems that he became interested in rifle shooting some 10 years ago, but not being near any center of rifle shooting activities, he just breezed along as best he could for about 5 years and then got acquainted with some of the boys who were real good shots and knew the target game from the ground up. From now on, I am going to let him tell the story, and I quote from his letter:

"It wasn't long before I was trying to attain perfection on the DeWar course and taking part in indoor matches. In spite of quite diligent work on my part, I never attained perfection, that is 400 x 400 on the DeWar Course, until July 28th, 1940. By that time I had acquired a real scope for my target rifle and had heard many discussions about the relative merits of different ammunition, and the necessity of using nothing but match ammunition beyond 25 yards if one really wanted to make a score.

"On the date mentioned, however, it happened that I arrived at the range without ammunition, but arranged to obtain a couple of boxes of the garden variety of regular 'Kleanbore' from a friend. (Oh, happy day!)

"Having decided to use iron sights instead of the scope for my trip over the DeWar, I never even considered that I might make a 400. My young son was with me on this particular day when I lay down on the 50-yard line, and much to my surprise, I finished with a 200 and 13 X's. The last bull being a 5 X-er. Apparently the garden variety of ammunition wasn't so bad.

"I didn't shoot the course at 100 yards immediately, because my young son wanted to shoot a bit and I had some chinning to do with the fellows anyway.

"About two hours later, as it was getting near noon, I decided to shoot at 100 yards. By this time the boy had finished his shooting and, being hungry, wanted to go home. However, I lay down and started in without giving much thought to the possibility of going clean. I sort of figured that I had been lucky on the 50-yard course.

"However, I went clean on the first target and then I did really begin to wake up to the idea I might actually make the 400 and the pressure began to build up. In addition, the boy began to nag me about going home. In spite of this youthful wailing, I got seven more tens and then one of the fellows who had been watching me explained to the boy that I was doing some excellent shooting and as I only had three more shots to go 'for pete's sake don't nag him now'.

"With this thorn in my side removed, I managed to get the other three shots in and finished with 400 and 24 X's. I am now firmly convinced that the gun and the ammunition are much more consistent than I on anything except machine rest, and that there is not much point in laying a poor score on the gun or the ammunition.

"I bought myself a M/37 some time ago, and I must say that the trigger pull is about the nicest thing I have ever experienced.

"I shall be awaiting the arrival of the brassard, which will be attached to my shooting coat."

There you are!

A MEDIUM WEIGHT TARGET RIFLE WITH HEAVYWEIGHT PERFORMANCE

If you own a Remington "Matchmaster"—Model 513T—you already know that a fine target rifle can be had at a moderate price.

If you don't own a Remington Model 513T, and are thinking of buying a new medium priced target rifle after the war, we think you'll be interested in a reminder of what sort of a gun this exceptional rifle is.

The moderately priced Remington Model 513T rifle is one of the greatest nine pounds of target rifle that's ever won an important championship. It's complete in every detail—ready for immediate use—with:

—new style stock of accepted design,
—Redfield precision sights,
—short, smooth, crisp trigger pull,
—fast lock time,
—adjustable front sling swivel,
—full size sling strap,
—exceptionally fine accuracy,
—in fact, every desirable feature for match shooting in all positions.

The Remington "Matchmaster" Model 513T rifle gives you more—per pound and per dollar—than any other target rifle of its class.

Remember that—when sporting rifles are available again!
Remington Arms Company, Inc., Bridgeport, Conn.

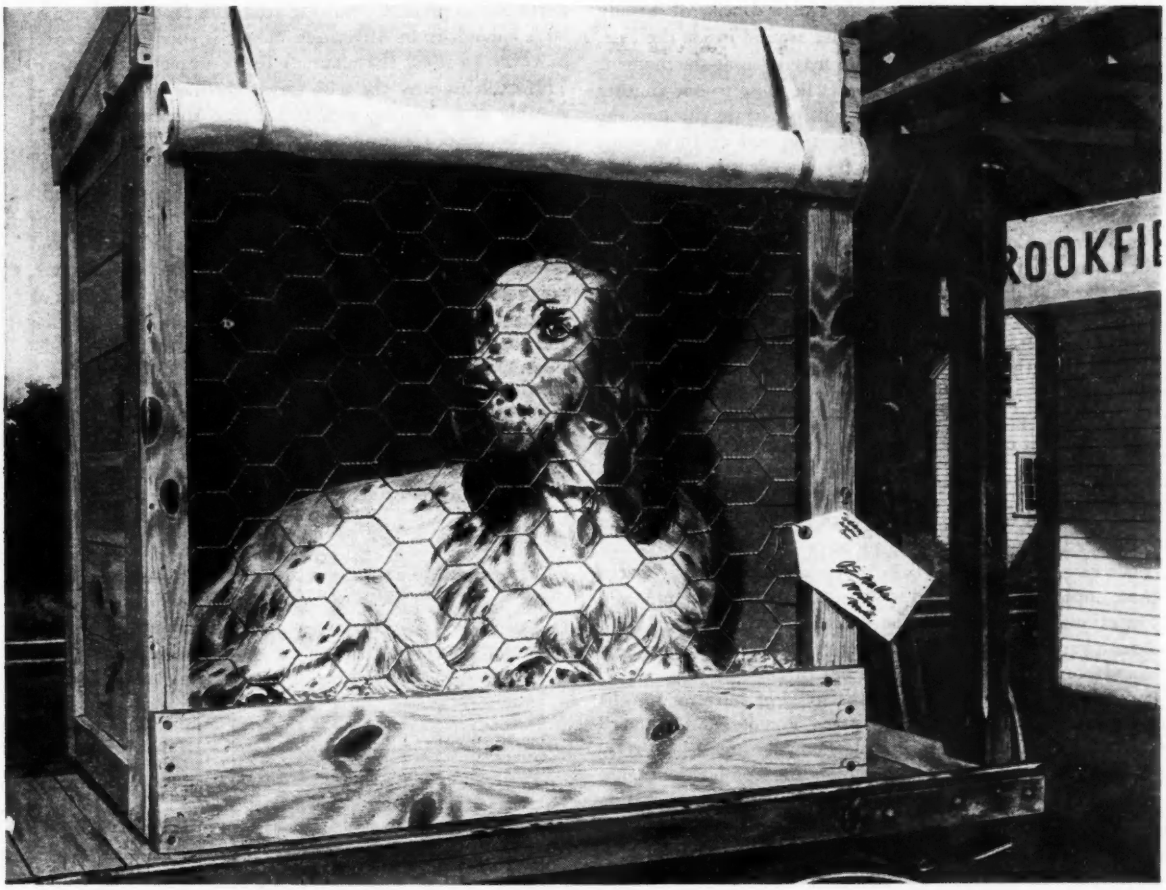
"Matchmaster" is Reg. U. S. Pat. Off.

THERE'S ONE IN EVERY CLUB . . . . *The Dreamer*

SHUCKS — IT WOULD TAKE A NICKEL TO COVER THAT GROUP!
A SILVER DOLLAR - HE MEANS!
IF THAT GUY EVER SHOOTS A GROUP HE CAN COVER WITH A NICKEL I'LL BUY HIM A WAR BOND!

Remington DUPONT News

A PAPER FOR PEOPLE WHO SHOOT



I know what Freedom means

I'm lonesome, and sort of scared.

This morning the Boss put me in this crate, and right away I knew something was wrong. Then he scratched my ears longer than usual, all the time with a strange, extra-serious look in his eyes.

He said he was going gunning for varmints, and I started to get excited. But he said no, these were a different breed. Two-legged ones. "And, Jeb," he said, "you're going to live with strangers till I get back. Be a good dog about it." He talked a lot about *freedom* . . . and how, if he didn't win out over those varmints, he'd probably be in a crate, too, and strangers would be shouting orders at him.

Well, I know what freedom means, and I want it . . . for me and for the Boss. I want to be free to run through my favorite fields and woods again. Free to see the Boss, with a smile on his face, try to pretend he isn't as excited as I am.

He said he'd come back to me . . . that life would be the same again, or better. So I'll be waiting . . . no matter how long it takes!

★ ★ ★

Here at Remington we are thankful that we are able to help Uncle Sam go gunning after those "varmints" . . .

1. Since Pearl Harbor, Remington has produced more than *ten billion* rounds of military small arms ammunition . . . three times as much as was produced by the entire country on all four years of World War I.

2. Every working day, Remington produces more than enough military rifles to equip an entire infantry regiment at full fighting strength.

But, after the war is won, we will welcome the return to our peacetime business . . . when once again we can serve our sportsmen friends with Remington shotguns and rifles, Nitro Express shells, Remington Hi-Speed .22's with Kleanbore priming and Remington big game cartridges with Core-Lokt bullets. Remington Arms Company, Inc., Bridgeport, Conn.

★ ★ ★

"Nitro Express," "Palma," "Kleanbore," "Hi-Speed," "Matchmaster," and "Rangemaster" are Reg. U. S. Pat. Off.; "Core-Lokt" is a trade mark of Remington Arms Company, Inc.

Remington "Rangemaster" Model 37 bolt action target rifle and Palma Kleanbore .22's.

Remington

DUPONT

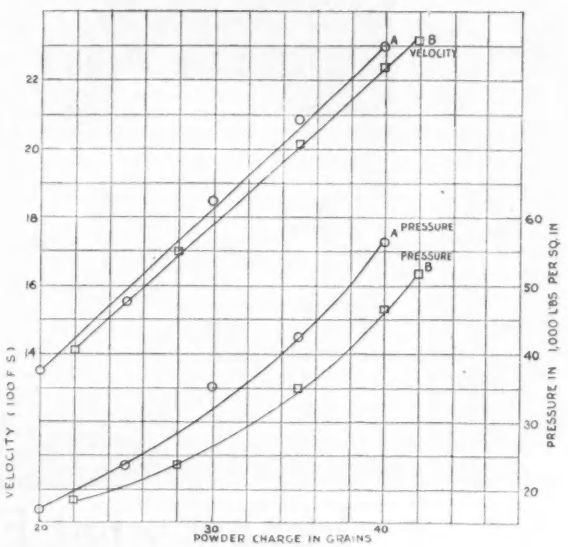
Increasing the length of a bullet, therefore, increases pressures by reason of (a) increased weight, (b) increased bearing surface, (c) increased density of loading. This is a practical example of how a seemingly simple change in *one* component will complicate any attempt to estimate ballistic performance mathematically.

The regularity of ignition is affected by density of loading for two reasons. First, with a high density of loading the powder has little room to shift around inside the case, no matter what position the gun may be in at the moment of firing. The grains will always lie close to one another and the flash from the primer will penetrate through the core of the charge. Positive ignition and uniform combusion will result. With a very low density of loading the cartridge case is not full of powder. The grains lie loosely in whatever portion of the case is lowest at the moment. Consider an exaggerated example as an illustration. If the gun is carried muzzle down, then thrown to the shoulder for a quick shot, the powder will probably all be in the forward end of the case against the base of the bullet. The primer flash will have to travel most of the length of the case before it has a chance to ignite the powder. As the gases expand and swirl inside the case, the powder grains will likewise whirl around and uniform ignition and combustion will be very unlikely. Pressures will develop slowly and probably never reach the expected maximum. If, on the other hand, the gun has been carried on the shoulder with the muzzle of the gun elevated, the powder will all have rolled to the rear of the case. The primer flash will engulf the entire charge at once. Ignition and combustion will be rapid and maximum pressures will be reached very quickly. With such varying pressures the bullet velocities will vary widely and accurate shooting will be out of the question.

Density of loading affects the speed of burning for the reasons explained in the chapter "Powder and Primer" i.e., the speed at which smokeless powder burns is in relation to the pressure under which the combustion takes place. With low density of loading there is considerable air space inside the cartridge case. In proportion to the space occupied by the powder charge there is a large area of cartridge case and chamber wall to which heat is lost as the powder burns. Temperature and pressures mount relatively slowly. With high density of loading there is little air space in the cartridge between the powder and the bullet. When the powder is ignited the expanding gases immediately begin to exert increasing pressure inside the case. The loss of heat to the case and chamber walls is proportionately reduced as the space occupied by the charge is increased. The speed of combustion immediately increases and pressures mount rapidly. Thus, if we load twenty grains of powder into a case designed to accommodate just twenty grains, we may confidently expect the charge to ignite quickly and to burn uniformly and completely. We will have an efficient load. However, if we load that same twenty grains of powder into another case of identical design but large enough to hold thirty grains (bullet weight and all other factors being identical in both instances), we will not develop as high a pressure nor will we obtain the same efficient, uniform ignition, and combustion.

Factor Number 8—the temperature of the gun and cartridge at the instant of firing is directly related to the question of chamber dimensions and density of loading. Heat expands metals and gases. The effect of firing a hot cartridge is the same as firing a cartridge with higher-than-normal density of loading. Higher than normal pressures result. The relative increase in chamber pressure will also be affected by many factors—the original tolerances in chamber and cartridge, original density of loading, burning characteristic of the powder, etc. Under normal conditions of target range, hunting field, or combat firing the difference in pressure resulting from this factor will not be large enough to be dangerous. There is enough difference, however, to affect the accuracy for real precision shooting. This explains why the wise target shooter fires as soon as possible after loading a cartridge into the chamber—and why he takes the unfired cartridge out of his gun and inserts a (cool) new one if delayed in getting off a shot!

Factor Number 9—temperature and humidity conditions under which the ammunition has been stored—of course, affect the chemical stability of the powder and primer as discussed in the "Powder and Primer" chapter. Fortunately the changes most likely to occur by reason of long or improper storage usually result in poor ignition and low pressures rather than creating dangerous conditions in the cartridge.



VI. **Comparison of pressure and velocity curves for two bullets of the same weight using the same components including the same powder.** These curves show that ballistic data can be seriously misleading unless the ballistician has complete information regarding the components used in the tests. *Both bullets used in these tests weighed 220 grains.* They differed only in shape and composition. A 38-grain charge of powder behind Bullet A developed the maximum safe working pressure of 50,000 pounds. 41.5 grains of the same powder developed the same pressure with Bullet B. With Bullet A, the 38-grain maximum charge gave a velocity of 2,200 feet per second. The heavier charge of 41.5 grains with Bullet B developed 2,300 feet per second without exceeding permissible pressures. Note that the charge of 41.5 grains which is safe with Bullet B would be extremely dangerous behind Bullet A, developing the enormous pressure of 85,000 pounds per square inch. Remember, these tests were fired with bullets of exactly the same weight differing only in shape and composition. Identical powder, primer and cases were used and the tests were fired in the same gun, by the same test crew, under uniform conditions.

(The Old Coach continues his review of the basic principles and fundamentals of small arms ballistics in the January number with a discussion, together with photographs and explanatory diagrams, of the methods used in measuring the extremely high pressures developed during the "Terrific Instant" of the discharge of the gun.)

A Plea for the Mannlicher-Type Rifle

I AM A CONFIRMED bolt-action addict and have spent both time and money trying to find a high-grade bolt action gun, light in weight, short, handy to carry.

I have used several cut-down Krags, and have found them to be excellent killers but lacking in beauty and by no means "modern" according to accepted standards. I owned an excellent M 54 Winchester in .30-'06 caliber. Its weight was just about right but it was a trifle long for woods hunting and the high lift of its bolt handle would not permit a low scope. (I like to be able to mount a scope for vermin shooting in the off season).

I bought a fine M 70 in 7 mm. caliber, but it was my misfortune to get one that was overweight even for an M 70. After lugging it for two weeks in the Canadian bush, I came home and gave it a good trading off.

My M 30S Remington with a 440 Weaver in Albree Monomount and loaded with five shiny .257 cartridges weighs about nine and one-half pounds. That is fine for shooting on the range and I do not mind it too much in the chuck fields; but in the deer woods that gun can get mighty tiresome to carry.

All of these guns weighed from eight and a quarter to nine and a half pounds. All were superlatively accurate. All were beautiful specimens of the modern American rifle. For long-range shooting, they had the necessary weight to bring out their accuracy. But I would be willing to sacrifice a small portion of that accuracy for less weight and a handier length for eastern hunting.

At the time of our advent into the war, there was only one rifle of American manufacture that seemed to fill the requirements which I had set up. That is the Sedgley-Mannlicher Sporter. It has the Springfield action and came with the bolt handle unaltered, so putting a scope on this gun required alterations to the bolt. In other respects the gun seemed to fill the bill, especially if the buyer spent an extra ten dollars and got the featherweight model which is listed as a seven-and-a-quarter-pound gun.

Lately Winchester has been furnishing the very fine M 70 in a twenty-inch barrel. About all that would be required to make this my dream gun would be a nicely turned little Mannlicher stock. On the standard action and barrel this should not run more than eight and a quarter pounds. To prevent less experienced shooters from getting a bad caliber for this type gun, it should be limited to the more moderate loads such as .250-3000, .257 Roberts, 7 mm., .300 Savage, and possibly the .35 Remington. The M 70 action permits of low scope mounting. Standard sights should be flat top open sight or a Redfield 70 series which can be removed without leaving a marred stock.

Winchester could improve on this by turning out a short M 70 action and a slightly lighter barrel of twenty-inch length. I predict that such a gun would develop into a best seller. Even those shooters with fine, long-barreled, long-range killer-dillers would be casting envious eyes at the possessor of the little lightweight M 70 Mannlicher. I am inclined to think that there would be more accuracy inherent in this little arm than anyone but an expert rifleman could extract from it. I offer this suggestion to Winchester, or another arms manufacturer who wonders how to survive the postwar deflation.—W. H. HALL.

"The Battle Is The Pay-off"

WELL, HERE I WAS, marching along behind a real live enemy's line . . . tagging along, after some battle plan that none of us then understood.

I thought of the rifle that then rested a little easier on my shoulder, and how swell it felt after my good day on the range, the day when the first eleven shots were all bull's-eyes and I would have gone on making bull's-eyes if I hadn't got score fever and grown so tense that I had to take the rifle down from my shoulder, look around and blink my eyes and take long breaths and try to relax between shots. I thought of Jonesy, who was an old soldier and my scorer, lying there next to me on the firing line at the range, so excited by my score that he made me still more nervous, telling me, "Now all you have to do is keep calm." And the lieutenant, who was the range officer, whose shooting I admired very much, walking down the line toward me and saying, "Take your time, take your time." Everyone else had finished shooting except for the rapid fire and down the firing line they were sitting or standing, looking at me and looking out across the range at my target which was the only one in the butts that was up. And then my saying to myself, "Well, it might as well be now," and aiming and seeing the vibration of the barrel of my gun in the sights and knowing that I was now so tense that the trigger squeeze would have to get the bullet in the target. . . . And then squeezing and seeing the target go down without either feeling the recoil of the gun or hearing the muzzle blast, I was so anxious about the target. And the target coming up and that second before the marker shows, and then the marker, round and white, over the black bull's-eye.

And I remembered, at the end of that day, feeling wonderful. I felt that there was nothing as a soldier that I was afraid of because I could shoot straight—and shooting straight is more than just pointing a steel barrel and tripping the hammer with the trigger. It is a feeling so strong and satisfying that it must come in the blood from days when men were hunters. Or maybe Freud could explain it. I remember thinking, marching in from the range that day, after the kidding and the congratulations, "Well, to hell with it, let it blow; I don't care where I go as a soldier. I know I can shoot now."

And now walking in the dark with a rifle like that rifle on my shoulder, toward an enemy that was to be shot, I felt neither afraid nor unafraid.—*From "The Battle Is The Pay-off," By Captain Ralph Ingersoll. Reprinted by permission of the publisher, Harcourt, Brace and Company.*

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

POSSIBLE

Twelfth Bomber Command.

Editor:

The helmet on the October issue is right down our alley and we highly approve the alteration made on it by the artist; that is, the hole. The rifleman registered a bull's-eye: a 1X-Kraut Possible!

Do the boys write from the front to tell you what they would like to have developed for present or postwar use? I want an optical range-finding device, to work like the range finder on a camera, so that twisting a knob will line up the split images and at the same time adjust the scope cross hairs. Could you have a sample waiting for me when I get back?

About the complaints on the military-minded RIFLEMAN, don't be too impressed. Remember that most likely there are three unwritten approvals to every written objection to any article you print. THE RIFLEMAN is in a class by itself and has been for years. Even the fellows who are complaining will admit that. It has always suited me to a "T."

T/Sgt. G. Aulabaugh.

WE TRIED

Idaho Falls, Idaho.

Editor:

I have viewed with interest the letters regarding the irregular delivery time of THE RIFLEMAN. I suggest the following:

THE AMERICAN RIFLEMAN may, if I am correct, upon written application to the First Assistant Postmaster General, secure a definite release date; that is, a stated date on which all post offices will deliver the magazines. This would place THE RIFLEMAN in the hands of all subscribers on the same day, eliminating the present two or three days difference in delivery time. "Life," "American," "Saturday Evening Post," and many others use this method.

George J. Keller.

We tried, long ago. Our application to the Post Office Department was declined with the explanation that this policy has been discontinued and only magazines using the release-date plan prior to the change in ruling could be so handled. Sorry; but that's the way it is. ED.

PREPARED

Riverside, California.

Editor:

My son, Harry R. Erwin, was called into the service June 28th, and, about a month later, shot the "B" Course with the Garand rifle. He made Expert Rifleman; the first in his Company to make that rating. I give full credit to the NRA for having sustained his interest in rifle shooting over a period of several years so that, when the time came, he was able to deliver the goods.

Calvert R. Erwin.

CHALLENGE

Manhasset, New York.

Editor:

The Roslyn Rifle and Revolver Club, Inc., would like postal matches in either A, B, or C class. Any club desiring to shoot in either of these classes should write the undersigned at 15 Dennis Street, Manhasset, New York.

The Army Air Corps, Mitchell Field, has been using all of this club's range facilities for the past eighteen months, piling up an approximate 30,000 man-days of shooting. This has prevented us from carrying on any civilian training program.

Clarence W. L'Hommedieu.

KEEPING THEIR HANDS IN

Somewhere in Africa.

Editor:

For proof that the pistol game is still as popular with us as it was in the past I enclose photo of Officers' Pistol Team at Base 94, Somewhere in Africa. Standing, left to right: Lieutenant G. B. Long; Chief Boatswain J. B. Hallet; Ensign W. C. Hall; Warrant Carpenter G. G. Ledder, NRA member, Weatherfield (Connecticut) Rifle Team and former competitor Northeast Regionals, North Atlantic Police shoots, and Metropolitan League, Hartford. Kneeling, left to right: Warrant Radio Electrician E. L. Philbrick; Warrant Boatswain K. R. Groote, NRA member, Westwood Gun Club, former coach Rifle and Pistol Team, Harvard University, (Coach); and Chief Gunner's Mate W. R. Miller.

"Somewhere in Africa"

We believe we have the finest outdoor range this side of the good old States and we intend to improve it as time and materials permit. Was overjoyed the other day when someone gave me three copies of THE AMERICAN RIFLEMAN. Always read it from cover to cover back home and getting it here was like a gift from heaven!

Kurt R. Groote.

SECOND THE MOTION

Davisville, Rhode Island.

Editor:

I believe the letter, "Fifth Freedom," in your October issue, stated one of the most important "Freedoms" there is: the freedom from infringement on the right to own and bear arms. The letter brings to my mind the Sullivan Law in New York, which prevents the honest man from owning or carrying a pistol unless he has political pull, whereas the person bent on crime can and will get and carry any gun he needs.

Being a Battalion Armorer in one of the Fighting Sea Bee Battalions and Instructor in all weapons from .22 rifle up to and including 20 mm. antiaircraft guns, I have watched many men trying to master the art of pistol shooting. Had those of us from New York had this "Fifth Freedom" instead of the Sullivan Law, the time required to teach us the use of the pistol would have been cut considerably!

Henry C. Albrecht.

PASS THEM ALONG

Manette, Washington.

Editor:

Regarding the announcement that you can no longer provide copies for newsstand sale: many boys in the armed services are going to miss reading the magazine so why don't the members who are not saving their copies send them on to some camp? I know they will be well read and appreciated because I have been giving my copies to the Marines and they sure look forward to getting the new one each month!

A. C. Petitt.

ATTENTION NORTHEASTERN CLUBS

Editor:

There are a number of men attached to U. S. Naval Air Station, Floyd Bennett Field, Brooklyn, who are NRA members but not affiliated with any civilian club in this area. As a result, we do not know dates and places of coming smallbore matches in the New England States, New York, and New Jersey, in which we might be eligible to compete. Will you ask the clubs in the states mentioned above to place us on their mailing lists for programs and entry blanks for such matches? Mail to me at the above address.

Chief Yeoman M. G. Dean, USNR.

ILLINOIS RIFLE

The Sheridan Rifle and Pistol Club held its annual Harvest Rifle Tournament October 10th on the club range at Deerfield, Illinois. It was a registered Class "C" match with fifty-two shooters competing.

It was an ideal shooting day and competition was keen. First place medals were won by John Perzo, Edwin Roeglin, J. Y. Murphy, and T. Sexton. Edwin Roeglin won the Aggregate with a four-match total of 1586-81X.

GRUMMAN RIFLE

Eleanor Dunn, Bronx, New York, set an all-time outdoor women's record of 200-17X to win 50-yard Any Sights Match at the Grumman Gun Club's registered Class "C" smallbore tournament held at Bethpage, Long Island, October 17th. This score places Miss Dunn first also in the Dewar Aggregate any sights with 399-29X.

The Dewar Iron Sights Aggregate was won by Arthur Bockman, Ridgefield, New Jersey,

with 398-21X. Walter Tomsen, Flushing, Long Island, was the winner of the Grand Aggregate, scoring 792-49X.

The Edo Trophy Match, a special match open only to four-man teams representing Defense Plant Gun Clubs, was won by Edo Aircraft Rifle Club with a score of 1557-58X.

This was Grumman's first registered Class "C" tournament and was so successful that the club plans several registered tournaments for both pistol and rifle in 1944.

AMERICAN SMALL-BORE MATCHES

The official report of the Twenty-fifth Anniversary American Smallbore Outdoor Record (pistol) Matches fired during August and September names A. J. Griffin, Meriden, Connecticut, as the winner of the 100-yard, 50-shot Championship. This is an offhand match, fifty shots on three-eights-inch ring target, any rifle, any sights. Mr. Griffin scored 1162 x 1250, using a Standard Winchester 52 with a Lyman Super 20X scope.

"Mr. Griffin is a new contestant in these matches, and his win again substantiates the fact that the regular four-position shooter with his standard NRA-type equipment can step in and win one of these offhand events. Note the substantial margin of forty-five points and the type of equipment used."

"Circumstances permitting, the Twenty-sixth Annual American Smallbore Indoor Record Matches will be held during January and February, 1944. A complete program will be ready around the middle of December." Write Claude E. Roderick, 509 Fifth Street, Monett, Missouri.

PROTECTION FOR THIEVES?

"Among the groceries on the shelves of his store, Mobray Zittoes keeps a revolver, for which he has no permit. This may be a violation of the Sullivan law—as charged by the police who held him today—nevertheless it thwarted a holdup.

"Three men, one with a gun, entered Zittoes' store shortly after midnight and took $40 from the cash drawer. As they hurried off, the grocer got his gun and fired, wounding Columbus Bruno, on whom the $40 was found, according to police."

This story, from the New York *World-Telegram*, October 29, 1943, is submitted by Harry D. Frisbee, of New York City, as a factual substantiation of the opinion of "many intelligent people who say that the Sullivan law was intended to protect thugs against their victims!"

MARINES SMASH THREE

Quantico, Va., Nov. 9—Three new world's records were written into the books by Marine Corps officers during firing on the pistol range here today. This match was a registered NRA tournament.

Major E. O. Swanson, USMCR, formerly of Minneapolis, scored 189 x 200 to break the world's record in the 20-shot 25-yard Slow Fire match, .22 caliber. (On reduced 50-yard target. Previous record, 188.)

In the Timed Fire match, Warrant Officer C. A. ("Smitty") Brown, USMCR, of Tampa, Florida, made a perfect score, 200 x 200, plus fifteen tens .22 caliber. He also established a new record for the Short National Match Course, scoring 296 x 300, .22 caliber. The previous record was 295.

A four-man team established the other new mark, scoring 1127 x 1200 in Slow, Timed, and Rapid Fire, .45 caliber. The team members were Captain Albert Shapiro, USMCR, formerly of Detroit; Lieutenant T. E. Barrier, USMC, Statesville, North Carolina; Major Swanson, and Warrant Officer Brown. (Previous record, National Match Course, four-man team, Service, 1115.)

D. C. LEGISLATION

The Senate has passed Senate Bill 1151 "amending the law of the District of Columbia Relating to Carrying of Concealed Weapons." The House will probably soon pass the same bill.

Chairman McCarran, of the Senate District Committee, unfortunately, made a statement to the press with regard to this Bill in which he indicated that it would apply to the carrying of any firearm, including shotguns, openly through the streets of the District. This statement was inaccurate and has resulted in a great deal of unnecessary alarm in the minds of sportsmen.

The new amendment merely changes Section 4 of the Act of July 8, 1932 (47 Stat. 651; D. C. Code 1940 edition, title 22, sec. 3204) to read as follows: "Sec. 4. No person shall within the District of Columbia carry *either openly or* concealed on or about his person, except in his dwelling house or place of business or on other land possessed by him, a pistol, without a license therefor issued as hereinafter provided, or any deadly or dangerous weapon *capable of being so concealed.*" (The new language is italicized.)

The amendment will merely make it easier to secure convictions in the case of criminals carrying a concealed weapon who, upon the approach of police, remove the weapon from its concealed position and place it in the open. Courts in some jurisdictions have held that a person could not be convicted under a concealed-weapons statute if the weapon was carried openly in a holster or in the hand or if it was openly exposed in a vehicle. The amendment is designed to close this loophole.

It is unfortunate that some newspapers, influenced no doubt by Senator McCarran's statement, have given a false impression of the existing law and of the purpose of the amendment. It is the conclusion of the NRA that there is no objection from the standpoint of sportsmen to the existing bill or to the amendment.

COMING EVENTS

Registered Class C Tournament

North Carolina, February 19, 1944—Fourth Annual Indoor Pistol and Rifle. Charlotte Rifle and Pistol Club. John H. Pierczynski, 1221 E. 36th Street, Charlotte.

STOLEN GUNS

Hi-Standard Model B, 6¾" barrel; Walter Murad "Pointer" brown thumb-rest grips; built-in trigger-stop; Warshal trigger-shoe. Taken from stolen car parked in Hannibal, Missouri, September 12th. Notify C. M. Corry, Elks Club, Keokuk, Iowa.

NEW BOOKS:

"INFANTRY JOURNAL READER"

Edited by COLONEL JOSEPH I. GREENE

Too often our modern books on war and especially those dealing with the background of the present struggle affect the attitude "if you only had listened to me; I knew the answers but no one would listen." In this volume, written for soldiers and largely by soldiers, that attitude is not present. And if anyone could justly make such statements in the nature of an alibi it seems that military men could. The editors were also large enough in their minds to include material from men who seem just now to be on the wrong side of the question discussed. Maybe history will eventually prove them right as she has done in the past.

Some of the book is simply fascinating to the ordinary reader, the layman. The chapters under the titles "Sword of the Border" and "Academic Soldier: Gamelin" are especially well done and are of great interest to the uninitiated. Some of the material, as would be expected is of uneven interest to the ordinary reader. Tactics can be interesting if told in a popular way. We can call to mind the material of Hanson Baldwin and others in this day and the writings of Mason and others in the first World War. Of course, there must be the technical approach as well, and the volume includes an abundance of technical material. It is a wartime publication and reflects in the narrow margins and mechanical makeup the shortage of paper. The lack of an index is to be deplored but that can be corrected in later (and there should be later editions).—L. F. T.

(679 pages, Doubleday, Doran and Company, Inc., New York. For sale through Book Department, NRA.)

"THE THERMODYNAMICS OF FIREARMS"

By CLARK SHOVE ROBINSON

In his preface the author says:

"This book has been produced under the restrictions of wartime regulations in regard to confidential material. There is nothing in it that has not been available in book and periodical form for some years and that is not known by experts in the field of interior ballistics. Nevertheless, there is no equivalent work on the subject in English.

"The recent great development of the explosives and ammunition industry has created a demand on the part of newcomers into the field for a compilation of this information on a sound theoretical basis. It is hoped that this book will fill this need."

There are two kinds of treatises on technical subjects. One type of article or book is intended only for the technically trained and highly specialized researcher or technician. The other type of article or textbook, while retaining its technical character and authenticity, is written in such a way as to educate the layman who has enough intelligence and perseverance to study the material presented by the author. "The Thermodynamics of Firearms" definitely belongs in this class of textbook. It will prove easy reading to anyone interested in ballistics who has the necessary background of training in mathematics and physics. It gathers together within one cover a great deal of material previously available only in scattered form. This is an excellent example

of the type of technical literature dealing with firearms and explosives which in the past has been rather extensive in Europe but greatly neglected by American publishers.

It is to be hoped that the response from technically minded Americans will be such as to cause our publishers to expand their output of this kind of literature after the war.—C. B. L.

(175 pages, cloth, $2.50, McGraw-Hill Book Co., Inc., 330 West 42nd Street, N.Y.C.

"THE BATTLE IS THE PAY-OFF"

By CAPTAIN RALPH INGERSOLL

If you've ever been inclined to doubt Johnnie Doughboy's transformation from fun-loving, carefree civilian to hard-hitting, job-conscious fighting man, read, if not the best, one of the best, accounts of a fighting incident to come out of the war thus far. While many writers have dealt with greater exploits, of more severe hardships, of the supreme personal heroism of this war, no one has been able to take the American soldier apart and analyze the stuff which makes him a fighting man quite as Captain Ralph Ingersoll has done in "The Battle Is the Pay-Off." This introspection of a civilian-soldier in his own case, plus the ability of a trained reporter to note, to retain, and to record in the most graphic language the actions and reactions of men in battle, makes the book a *must* for your current reading.

Whatever impressions this former editor of the much-discussed PM may have left with his admirers or his critics (and these are all left far behind) in this writing the Captain wins you immediately with his frank and clean-cut appraisal of the civilian-about-to-be-a-soldier situation. With the usual resignation of a selectee, after a month he discovers "how weak we were, how easy it would be in a showdown for anyone to impose his will on us." Yet, "to impose one's will on the enemy," is the military phrase for a soldier's mission.

"So, thinking it over, talking it over, what would we do—today—if there were no draft boards, no sudden impulses to enlist? Well . . . either we'd accept the will imposed by armies made up of stronger, tougher, better soldiers than we, or else we—first individually and then collectively—would have to create an army that was even tougher."

The fact that this could, and would, be done seems the burden of Captain Ingersoll's writing. How it proved out, in the Battle of El Guettar, with what sweat and personal sacrifice it is to be carried out in the long road ahead, brings forth from Captain Ingersoll the climactic description of which only a few writers are capable.

The writer avoids the vastness of a huge operation, choosing instead, one of those segments, one of the side shows on which hang the most carefully and bravely executed details. Throughout the brilliant description of a difficult maneuver, the approach to battle, combat itself, the shocking confrontal with death, there is no effort at heroics in the writing or in the characters.

And despite the near-perfect performance of the lads with whom he soldiers in this one day's fight, Captain Ingersoll breathes no over-confidence. On the contrary, he attacks vigorously the complacency of the home front, the bickering that looms so large in civilian eyes and appears so inconsequential to the fighting man over there. Very practically, it all adds up to something like this: "If the men who are actually in battle do not understand all of this, they have learned enough from the Stukas and the mortars and the mines to know that they, at least, are committed to a war to the death—that they will not get home until the men who stand in their way are killed or captured and disarmed. If the people at home can only learn that much, it will shorten the war a year and save 100,000 lives."

This reviewer quite naturally pounced upon some choice morsels about the man and his rifle. We were won over completely to the Captain's declared thorough, basic training, when he started writing about a day at the range. After a description of eleven consecutive bull's-eyes and score fever and tenseness so great "that I had to take the rifle down from my shoulder . . . take long breaths and try to relax between shots," we know he is one of our own kind. Going into battle, then, he takes comfort in the recollection of that day on the range where he sensed for the first time "that there was nothing as a soldier that I was afraid of because I could shoot straight—and shooting straight is more than just pointing a steel barrel and tripping the hammer with the trigger. It is a feeling so strong and satisfying that it must come in the blood from days when men were hunters . . ."

If you're trying to crystallize a philosophy of this war, whether you are civilian or military, or if you're merely looking for graphic combat scenes, you can't do better than to read "The Battle Is the Pay-Off."

(Harcourt, Brace and Company, 383 Madison Ave., N.Y.C., 217 pages, cloth, $2.00.)

Paul A. Curtis

Paul A. Curtis, age fifty-one, well known writer on gun topics, was found dead, November 20th, in the bedroom of the New York apartment of A. J. Gahanan, where he was a guest. Police state that Mr. Curtis's death was caused by a bullet wound, self inflicted.

Paul Blakeslee Mann

For forty years a teacher and, at the time of his retirement, supervisor of science in the senior high schools of New York City, Paul Blakeslee Mann died Friday, October 22nd, at the age of sixty-six.

A crack rifleshot and an experienced student of the science of rifle shooting, Mr. Mann coached riflemen from 1905 to 1925. During the First World War he qualified a thousand marksmen and two hundred sharpshooters for skilled service in that conflict.

Mr. Mann was an associate in education and a lecturer at the American Museum of Natural History, at City College, and at Cornell on the teaching of biology in high schools. He was first vice-president of the National Association of Biology Teachers.

Captain Aaron R. Smith

At the age of sixty-three, Captain Aaron R. Smith of Toledo, October twenty-third. He is survived by his widow, Margaret Smith.

A rifleman since boyhood, "Cap" has been a member of the NRA since 1920 and a Life Member since 1933. He attended every National Match at Camp Perry since 1919. He was Captain of the 1930 Ohio Civilian Team and a member of the teams of 1928, 1929, 1930 and 1936.

"Cap" has been a member of the Toledo Rifle and Pistol Club since 1927 and was responsible for much of its progress.

John A. Heillman, Sr.

After an active career as a member of the Kansas City, Mo., Police Department and as a rifleman and pistolman, John A. Heillman, Sr., died of a heart attack on October twentieth.

Mr. Heillman was a member of the NRA, the Missouri State Rifle and Pistol Association and the Greater Kansas Pistol League Association. He was first assigned to the Police Department of Kansas City in 1921 and was very active in the field of pistol shooting. He attended the Police School at Camp Perry in 1930 and 1931 and won the Hogan's Alley Pistol Match in 1930. From 1935 to 1939 he operated a target range of his own in Kansas City. Here were held the matches of the Greater Kansas Pistol League.

He is survived by his widow, Iris Katherine Heillman; a daughter, Iris K., now training with the Women's Air Force Service Pilots; and a son, John A., Jr.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACTS OF CONGRESS OF AUGUST 24, 1912, AND MARCH 3, 1933

Of THE AMERICAN RIFLEMAN, published monthly at Washington, D. C., for October, 1943.

District of Columbia, ss:

Before me, a notary public, in and for the State and county aforesaid, personally appeared C. B. Lister, who, having been duly sworn according to law, deposes and says that he is the Managing Editor of THE AMERICAN RIFLEMAN, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher: National Rifle Association of America, 1600 Rhode Island Ave., Washington 6, D. C.

Editor: W. F. Shadel, 1600 Rhode Island Ave., Washington 6, D. C.

Managing Editor: C. B. Lister, 1600 Rhode Island Ave., Washington 6, D. C.

Business Managers: Executive Committee, National Rifle Association of America, 1600 Rhode Island Ave., Washington 6, D. C.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

National Rifle Association of America. 1600 Rhode Island Ave., Washington, D. C. No stockholders.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the twelve months preceding the date shown above is . . . (This information is required from daily publications only.)

C. B. LISTER, *Managing Editor.*

Sworn to and subscribed before me this 26th day of October, 1943.

LOUIS Q. BRADLEY,
(SEAL) *Notary Public.*

My commission expires May 14, 1946.

ON THE FIRING LINE

WITH THE PRE-INDUCTION TRAINING SCHOOLS

ADD 1000 FOR NEW YORK

Pre-induction training started, in New York, in May, 1940, when more than two hundred men outside the limited Plattsburg quota asked for some kind of military training to prepare them for service should we enter the war. Major Boyce, Civilian Aid to the Secretary of War, who had trained thousands of men during the First World War, was put in charge of this work.

Later in the year, rifle instruction was offered in addition to other military subjects and arrangements were made for the use of the range at the 77th Division Clubhouse under the direction of Captain Jerry Townsend. Captain Townsend is a veteran in rifle and pistol competition, an NRA member, and an able instructor.

Exact figures are not available, but it is certain that more than a thousand members of "Boyce's Tigers" were trained, from 1940 on, in basic marksmanship. The instruction paralleled the NRA Small Arms Course.

The range had several guns for the use of men who did not own rifles. Three firing orders were available. The Coach-and-pupil method was used exclusively and heavy emphasis was placed on safety and on the fundamentals of position. There was an abundance of dry firing. No shot was ever wasted. The beginner received only a few live shots and was closely watched and coached as he fired them.

It was highly gratifying to all concerned to see what a large percentage of these New York boys, many of whom had never seen a rifle prior to this training, were able later to qualify in the service.

L. S. Marks, from whose letter this report is taken, says, "I can vouch for the value of the NRA training program. Its value to the men themselves has been proved, by promotion or otherwise, in many, many cases. Most of these men had never handled a rifle before. But their interest was amazing. Captain Townsend hung pictures from past issues of THE RIFLEMAN on the walls of the smoking room and we saw many men spending their time in that room, not smoking, but practicing positions.

"One value in this training that is not sufficiently stressed is the respect instilled in the men for discipline. Seeing the necessity for it in this training, he sees its purpose and consequently finds it easier to make the transition from civilian to Army life. That very understanding may account for the fact that he so often wins early promotion."

HILL 620

Mr. Martin C. Koeberle, of Sumner, Iowa, sends us the following story, told by Lt. Col. Loyd Shepherd, of Waterloo, Iowa, of how rapid fire and straight shooting turned the German tide in the battle for Fondouk.

Waterloo (Iowa) *Daily Courier*.—"We were infantry, armed with rifles and four 37 mm. guns. On sighting the leading enemy tank, our 37's poured fire on him and turned him; but the infantry kept coming.

"The Germans were surprised by the rapidity and accuracy of our rifle fire! We mowed them down! Our own losses totaled four men out of the battalion, and those four were killed by a German officer who 'surrendered' and then tossed a grenade at us.

"We held Hill 620 against two attacks, then drove them back to Fondouk and kept them on the run from then on. The two Waterloo companies were noted for their marksmanship when they left Waterloo, and they didn't lose their skill 'over there.' They proved the value of that training on the battle field."

"Production of guns, tanks, planes, all material of war is very essential but the knowledge of how to aim and operate those same guns is the final test of who is going to win this war. It is a shooting war."—COLONEL JAMES MURPHY.

ADJUTANT'S REPORT

A year ago this month the Lakewood Rifle and Pistol Club, Lakewood, New Jersey, started its first Small Arms Firing School class. Since then, approximately two hundred students have completed the course.

In that first class was Mrs. Carl Estell. She must have been good, for she was asked, by Alvin A. Ferber, Chief Instructor, to assist with the next class as Adjutant. The rest of this story is Mrs. Estell's.

"I admit that when I enrolled in the first class it was from no patriotic urge; it was something to do for a Navy Wife whose husband was overseas. But after I saw what the course was I was so interested that I tried to recruit everybody!

"We had a few women and quite a number of pre-draftees. Among the latter, one boy stands out. He had but one eye. He had tried to enlist in every branch of the service and had been turned down, but when he was called for his draft examination he passed. He was an excellent student in our class; nothing escaped him. He received his attendance certificate and when his superior officers saw that certificate they sent him to school to become an instructor.

"Another young man from that class was chosen for a special assignment because of his previous instruction.

"Still another received a Chief's rating and was immediately sent to Florida for intensive study and training with all sorts of weapons.

"The interest of the students gives the instructors much satisfaction. They almost swamp me with questions. They are so anxious to see their targets and their progress charts; and the Adjutant better not make any errors in marking them, either!

"Although most of our students are engaged in defense work their attendance has been perfect; or if they miss a class they make sure that they make it up.

"The instructors, too, deserve a lot of credit for devoting so much of their time. Our classes have been large and we have had to extend the time of instruction.

"The boys who go into the service make very sure that they have their attendance certificates. These are as important to them as their birth certificates!"

(And why not? The birth certificate proves only that he was born; whereas skill with his rifle may be the deciding factor that will enable him to go on living!)

'CHUTISTS AND SHOOTERS

The first class through the Small Arms Firing School sponsored by the newly incorported Parachute Pistoleers Rifle and Revolver Club, Detroit, Michigan, finished its training November 2nd. The class of eleven was composed of members of Civil Air Patrol Squadron 632-5, of Detroit, known as the Parachute Squadron. Several of these men will soon enter the armed forces.

In addition to all regular C. A. P. activities, the Parachute Squadron trains young men in A.A.F. pre-flight courses and in the care, maintenance, and jumping of chutes.

The first rifle class was in the nature of an experiment and through the splendid cooperation of the Irish Rifle Club, on whose range the firing was done, it has turned out so well that a second class of some fifty has already begun training.

HE DIDN'T TAKE THE TRAINING

Of the boys who have received training in rifle shooting at Staples, forty-three are known to be in the armed forces and there are probably several more. Many have testified to the value of this training in their present work. Our best boost, however, comes from a boy in the Air Forces who did not avail himself of this opportunity. "Stevie," he writes, "I can't tell you how much that training you are giving the fellows will help when they enter the service. I feel like kicking myself around the block when I think of the opportunity I missed by not joining the Rifle Club. Just the feeling of self-confidence a fellow has who has had some experience with guns really helps loads without even mentioning the ability he has gained through practice. Any boy who doesn't take a crack at it now is really hurting himself, I think, and those who do are helping both themselves and their country."

(Excerpt from a letter from Walter B. Stevenson, Rifle Instructor, the Staples High School, Westport, Conn.)

VALUABLE CONTRIBUTION

The Clarksburg (West Virginia) Sportsmen Club is very proud of the following letter from Pfc. Charles E. Gribble:

"Just prior to my induction, you persuaded me to take the course in rifle marksmanship sponsored by the club. By way of appreciation for putting that opportunity in my path I wish to thank you all for a valuable contribution to a soldier's training.

"The marksmanship course given all basic trainees in the service is almost exactly the same as the one we had in Clarksburg. Having completed the course there enabled us to keep ahead of the class here and qualify easily when it came to record firing.

"Thanks to you and the pre-induction course, I was selected as squad coach and qualified all our squad with both the '03 Springfield and the carbine."

Letters such as this are the rewards with which local clubs all over the country are being paid for the hours they devote to the work that is helping America's fighting men to carry on the tradition of American marksmanship on world-wide battle fronts.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Scope Sight Reticules · Nylon and Lucite · Latest Lee Standards · Dot and Hair Diameters · Weaver Scope Adjustments · Gebby Junior Varminter · Latest Lovell High Power · New .220-30 Nameless · Fired Case Bullets Tested · Light 2R Load · Unique for Reduced Loads · Lead Alloy Analysis · Shell Remover · Barr's New Pup · Load and Power Comparison · List of Service Arms · Trade Dope.

DOTS AND CROSS HAIRS

A new price list from T. K. Lee pictures some of the reticules he can furnish. No. 1 is a plain center-dot on fine cross hairs. No. 2 is the same plus a smaller dot below center on the vertical hair. No. 3 is the same but with two smaller dots below center. No. 4 is a small center-dot with larger dots beside it and below it, but not above it. No. 5 is a larger center-dot surrounded by four dots of equal size. No. 6 is a single center-dot with two extra hairs bisecting the usual four segments of the field. No. 7 is like No. 2, but with an extra cross hair through the lower dot. No. 8 is an aperture on a post with a cross hair and center-dot within the aperture.

The standard No. 1 style suits me best for target shooting with the center-dot made smaller than a minute-of-angle so it will fit inside the 100-yard X-ring, aimed with 8X to 30X target scopes. No. 2 would be my choice for long-range varmint shooting with the top dot covering a minute-of-angle and the bottom one a half-minute. Zeroed about a half-minute high at 100 yards the Swift and Arrow and Varminter would then be set for direct aim with the lower dot at 300 yards. Suitable for 6X to 15X varmint scopes. No. 7 is the same thing for those who prefer the extra cross hair. No. 3, with its extra lower dot, would be useful for the .22 Long Rifle, .25 Stevens, .25-20, .25-35 and other game loads which have a high trajectory over their respective game-shooting ranges. No. 4 and No. 5 are for those who must shoot in extremely poor light. I can see no valid reason for the others except, perhaps, that of satisfying personal whims. Lee says all are in demand.

According to Lee, the dots are actually smaller than the specks of floating dust revealed by rays of sunshine streaming through the window cracks of a shaded or darkened room. A period or dot from his typewriter is fifty times as big as the dots on his fine cross hairs. A typed dot would cover two feet at 100 yards if placed on the reticule of a Noske low-power hunting scope. Naturally, these tiny dots would not stand out as prominently as they do on cross hairs of normal size, which means the hairs are somewhat smaller. The high-grade scope maker has a superfine hair which is only .00055 inch thick. Even this is 20% thicker than the Nylon strands Lee sometimes uses for plain hairs when small dots are not involved. He sent me a sample of the special fine Nylon thread which he separates into more than a half-dozen strands, each of which mike .00014 inch. This is about four times the size of the special silk web that spiders supply for his fine center-dot cross hairs, and which are only about .000035 inch thick.

The strands of Nylon thread were suggested as cross-hair material by a member, as stated in the August Dope Bag. His comment about the superiority of the red color may be credited to some virtue of the particular dye used for the red hue and not to the color itself, because to the sighting eye they all become a black silhouette in the instrument. Lee says the Nylon strand is very hard to handle because it tends to go back into its original shape, form, and length after stretching. The suggestion on the use of dissolved Lucite plastic for cross hairs came from Hobart S. White of Bethesda, Maryland, who said he used amyl acetate, but believes that acetone can be used as the solvent. He also suggests as a source of Lucite the cheap pencil-type flashlights sold in dime stores for special illumination of ears, nose, and throat. While he has not used his Lucite cross hairs with heavy loads, they have been subjected to temperature changes and humidity without change or apparent harm.

Mr. White fixed his Weaver scope in a rest and tested his 3-dot reticule at 100 yards on a special target. He found the Weaver click adjustments gave almost perfect quarter-minute displacements on the target and very reliably so over a total movement of 15 minutes vertically and 12 minutes horizontally. The outfit has also held its zero extremely well. His rifle is a .270 Winchester, and he loads 52.5 grains of No. 4320 and a minimum of 54 grains of No. 4350 behind the 130-grain bullet with results equalling those of the factory Silvertip load. The maximum load of No. 4320 in the 7-mm is 42.0 grains behind the 175-grain bullet.

SOME NEW AND OLD LOADS

We rounded up all loads not previously shown in the Dope Bag for presentation here. Some of these will be recognized from descriptions previously published in this department, three are standard and others may be brand new. Refer to the row of cartridges shown in the long cut and begin on the left:

The first one is the well known .276 Pedersen, the Service cartridge first intended for the Garand in its experimental stage; now obsolete. It has a 125-grain B. T. bullet and about 2700 f.s. m.v. Many shooters and experimenters have considered the possibility of necking this case for .22 caliber bullets. John Miller has done so and his cartridge is shown in No. 2 place. It is an equivalent of the Rimless Niedner Magnum and practically a rimless duplicate of Hervey Lovell's "Rimmed Varminter" (shown in spot No. 5). At the third position in the line is shown the much touted Marciante Blue Streak sent in by Ernest Baldwin. It is virtually the same thing as Jerry Gebby's "Junior Varminter" (not shown).

Friend Gebby told me the Blue Streak and Jr. Varminter will interchange in the same reloading dies, of some makes, and in the same chamber if the bullet is seated to suit the leed in the throat of the individual rifle. Gebby makes his leed for the 8-S bullet, but it accommodates other makes of bullets as well as do factory leeds or other standard throats. The point is that the cases are interchangeable in both chambers and the cartridges are too with the same bullets providing the seating depth or overall length is adjusted for the individual rifle throat or bullet leed. It is my impression that the Jr. Varminter will take the greater overall, or accept less seating depth than the other. Gebby uses the same bullet seat and shoulder as in his registered Varminter. He also modified the original Blue Streak reamer at the base end, making it slightly smaller, in order to anticipate and avoid extraction trouble and enlarged primer pockets or swelled heads. His best load is 34 grains of No. 4064 powder behind the 55-grain 8-S bullet, which load is as heavy as any he would recommend for the average rifle. He forms his cases from .25-35, .22 Hi-Power and .32-40 brass, preferring the latter for ease of reforming and absence of splits. The outfit gives him inch groups at 100 yards.

The fourth sample is the Lovell .22 H.P. Improved, with the 60-grain Mann-type base-band bullet, as described in the October Dope Bag. The body is 1.5 inches long, the shoulder is .110 inch and the neck, .250 inch. The shoulder diameter is .394 inch and the head diameter, .415 inch, with a body taper of 1 in 48. The shoulder angle is about 30 degrees. Hervey gives the load as 32 grains with 63-grain bullets and modern primers. The case used for this reforming job is the .22 Hi-Power Savage. Next to it (No. 5) is Lovell's Rimmed Varminter, made with the same dies and chamber reamer but on the shorter .219 Zipper basis.

No. 6 is Al Barr's unnamed .220-30 on the .220 Swift case as described in a separate Dope Bag story, this issue. He first considered the ".22-.30-'06" of nearly the same length and once approached Henlein about borrowing his reamers for this previously described and much older Henlein cartridge on the .30-'06 case, shown in No. 7 position. However, certain complications and delays developed and, in the mean time, the local gang pooled ideas with the eventual result of adopting the Swift case and a different design.

No. 8 is a sample sent to me by Lysle D. Kilbourn as an example of his answer to the demand for an enlarged 2R Lovell in lieu of the Maximum Lovell. In it he has employed the very successful principle of his Improved K-Hornet, this Kilbourn Lovell having the shortened neck and abrupt shoulder and straight body which are characteristic of the popular Imp. Kilbourn Hornet. Like all other Lovells, it is made on the .25-20 S.S. case.

No. 9 is the standard Winchester .218 Bee. It is included in order to permit a direct comparison of its proportions with those of the remaining three cartridges, all on one case. The first one (No. 10) is necked for .22 caliber bullets and No. 11, for .25 caliber bullets. No. 12 shows the cartridge whose case was used for these other two. It is the well known Service cartridge for our light little M1 .30 caliber Carbine.

Charles L. Russell reports from Ohio that he fired an Improved Hornet for a year without finding any signs of erosion or excessive wear in his Model 37 Remington barrel.

Then he changed to the Improved Zipper and found nothing wrong after firing 200 rounds with the M-37 barrel. Now he is contemplating a Gebby Varminter with another of these same barrels. He got fine accuracy with both but he was forced to shoot .222 inch bullets in these snug bores, pressures being, "entirely too great with the .224 bullet."

Russell also gives us the benefit of his experience with the Hornady bullets, made from fired .22 rim fire cases, as tried in his Improved Zipper chamber in his Remington barrel on his Winchester S.S. action. He sized these 55-grain Hornady bullets to .222 inch diameter also, and used his regular accurate load of 29.5 grains No. 3031 powder. He had 6-inch groups until he discovered that many different makes and types of cases had been used for jacketing his lot of bullets. When he segregated them by type and fired each lot separately he got his customary fine accuracy. Hence, Russell urges all clubs and other groups of shooters who send fired cases to Hornady first to segregate them into lots of brass, copper, and cadmium, according to material and according to make, and then ship them so separated. If Hornady or Speer had to do this he would have to add an extra charge for the service, which is to be recommended, but it would also slow up production and keep hundreds of shooters waiting for their thousands of bullets. In my own personal interest I would send him my own selected fired cases and demand the same kind in return. My first choice would be copper or gilding metal and my last choice would be any make of brass, in case no make of copper or coated cases were available to me. However, at this time this probably is impractical.

In shooting this particular lot of Hornady bullets, Russell ran into another interesting phenomenon. Previously he had used Sisk, Wotkyns-Morse and Remington bullets on varmints with excellent results as to prompt expansion and killing power. Now, when he shot 20 chucks, 4 crows, and a hawk with these few Hornady bullets, he began to have trouble on account of inadequate expansion at all ranges, from 100 to 325 yards. The answer came from Mr. Hornady who blamed it on hard cores, because they had been forced to use telephone cable in that particular lot of bullets; since corrected by getting an adequate supply of new lead for making the bullet cores. With their current run of these .22 bullets Hornady reported fine expansion and killing effect on prairie dogs and jackrabbits at all ranges when using 45- and 50-grain bullets at 3400 and 3500 f.s. m.v. Hornady said also they had overcome their earlier swaging trouble by annealing the jacket metal to insure getting uniform diameters while drawing various different makes and types of the fired cases.

A lot of sedately goofy guys are designing wildcats today on the belted case of the .300 H&H Magnum. I am not referring to Ackley, Gipson, Lovell, McCrea, or Miller, but to a fresh group interested in shorter small-bore cases than the Thunderboldt or .22-60 Magnum. They agree also on sharp shoulders, from 30 to 40 degrees, and a powder capacity from 40 to 60 grains, usually for No. 4350, for fairly heavy bullets, 60 to 90 grains, in .224, .228, .230, .240, and .250 caliber. Among the wild assumptions we find an occasional piece of dope, such as: "—this case will hold, 1½ inches above the belt, 50 grains—", or "—in the .275 belted that much will fill a length of 1¾ inches—". I can only hope that they won't go too far and swell out those shoulders and flatten those slopes and squeeze in those necks until the chamber pressure and gas can escape only through the walls of the breech or back through the action. A few are willing to dispense with that desirable gas-sealing belt or obturating ring on the H&H Magnum for the greater amount of brass in the very solid head of the .30 Newton.

For successful *reduced* loads in the bigger cases Hercules Unique (or Infallible dense shotgun) is indicated. David H. Farrell, of "Philly," is using 8 to 9 grains with the 50-grain 8-S bullet in his .220 Swift and gets 5-shot groups into virtually a minute of angle spread. Even in the .270 Gipson Magnum on the .30 Newton case and with 130-grain bullets 20 grains of Unique give him an average 5-shot accuracy of a "trifle better than an inch at 100 yards." Farrell adds, "This is a bull gun but has been fired 500 rounds with full loads and is getting dark in the grooves for about an inch ahead of the throat."

Nearly every shooter of the 2R Lovell has found that good accuracy can be had by using 16 to 16½ grains of No. 4227 powder behind 45- to 50-grain bullets or a case full, to the mouth, of No. 4198 behind 50- to 55-grain bullets. H. L. Williamson, from Indiana, first learned it was necessary to keep his cases trimmed slightly shorter than his Lovell chamber, and next, to use no more than exactly 15.0 grains weight of No. 4198 behind the Sisk 40-grain bullet for superlative accuracy with his tight M-52 Winchester barrel. Even adding ½ a grain weight of powder opened his quarter-size groups to 3 inches at 100 yards! Odd?

LEAD AND TIN FORMULA

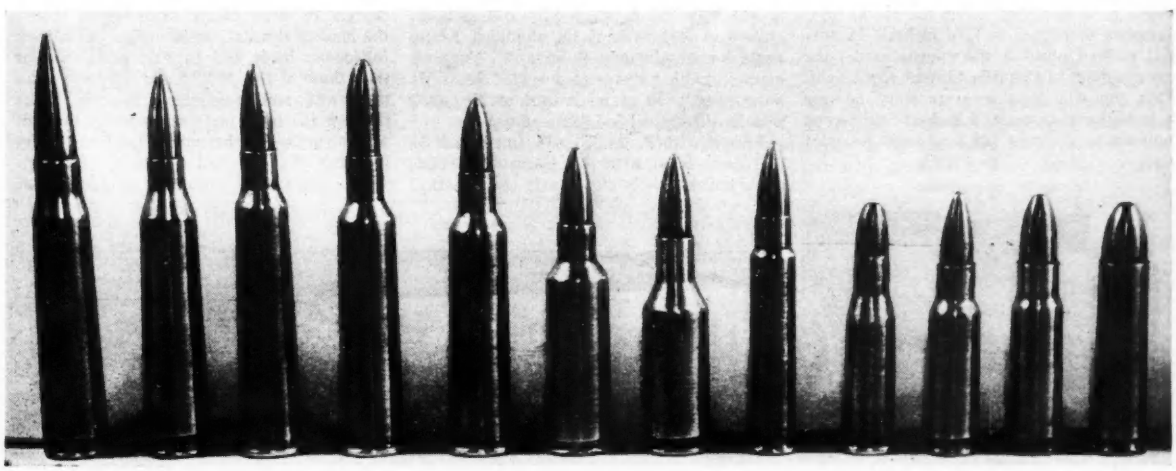
From New York state, Charles S. Hoy sends us the dope on his method of determining the tin content of an alloyed bullet metal when he can cast a bullet of it and one of pure lead from the same mold. Then he weighs both in grains, calling the unknown sample, "S" and the pure lead, "L" as symbols of their respective weights. He multiplies L by .663 and substracts this from S. Then he divides the remainder by (.337 times L) which gives the percent of lead in the unkonwn alloy. Next, he subtracts this percent figure (in decimals) from unity (1.000) and divides the difference into unity. Finally, unity is subtracted from this quotient and the answer is the number of parts of lead to one of tin.

ANOTHER SHELL REMOVER

From Wm. A. Park, Conn., comes an answer to F. W. Danby's "Broken Shell Extractor", September Dope Bag, in the form of a suggestion. To grip the neck section of the broken case in the chamber, Park uses the sharp threads of a small pipe or bolt or cuts these essential sharp serrations in the end of a steel rod. They must not extend too far or they will pass through the neck and damage the chamber. On the other end of the pipe or rod he fixes a ring or T handle. For the bigger calibers a ⅜th inch rod can be welded on a short section of tapped pipe. Usually the stuck case can be easily pried loose and started back by this method if a little thin lubricant or penetrating oil is first used. For stubborn jobs of extraction the front end of threaded neck plug is left flat for an assist from the cleaning rod, introduced at the muzzle. I have found, in my own solution, that a cut-off woodscrew of the required diameter grips the brass effectively and works well.

HANDSOME PUP

In my opinion the Bull Pup rifle, as a breed, is anything but handsome. To me most of these Pups look bloated like a well-fed guppy. The two I showed in the Octo-



ber Dope Bag are about as good looking as Bull Pups ever get. The first one Al Barr built and showed with his story, in the January, 1943, issue of THE AMERICAN RIFLEMAN, was typically representative of this breed and its average ugliness. Al decided to make his next Pup more pleasing to esthetic eyes, and I was all for the long-neglected idea of sublimation. I had a beautiful and suitable figured blank, from Lyman McCrea, which Al used along with plentiful suggestions from his friends and critics. He worked slowly, scraping and sanding cautiously and taking all the time needed for developing any potential beauty buried in the brute. Of course, the inescapably unconventional physical proportions inherent in its design precludes the achievement of real rifle beauty in any Bull Pup. But in its arbitrary outline and form the Pup has its own esthetic standards by which its relative beauty may be judged. Using the standards peculiar to it, and remembering their limitations on line and symmetry, view Al's latest Bull Pup as shown in the accompanying cuts and judge for yourself how handsomely he has succeeded in fashioning it. It is the most handsome pup I have yet seen.

What it lacks in beauty, the Bull Pup more than makes up in utility. I discussed these practical advantages of the design in that October Dope Bag article mentioned above and need not repeat them here. Al used the same trigger mechanism he had used in his first Pup. This time he had better going with a shorter bolt action. To get it, he cut off a Model 1903 Springfield receiver and bolt, had them welded together, normalized, and then reheat-treated after polishing roughly. Later, when he buffed and reblued it, the joining points became barely discernible. He himself will probably give us the details and the workshop story of this action job in a later issue of THE AMERICAN RIFLEMAN. I will say only that it is neat appearing and well adapted for the shortened .220 Swift cartridge he uses, and about which, more later. This short action contributes no little to the fine and neatly compact appearance of the finished rifle. Also it helped to make this one of the lightest *powerful* Pups, totaling no more than 10 pounds with its neat 1-inch sling but sans sights.

The proportions are, of course, important. The action is 7½ inches long and the barrel, 25 inches. It tapers from .700 at the muzzle to 1.13 at the breech. The total overall length is 33 inches of which the reach, from buttplate to trigger, is 13¼ inches. In normal unfired position the trigger marks the balance point of this rifle without scope sight. That too will be a separate story because it is to have a special Litschert-Stith scope and mount designed for long-range varmint shooting. A unique or seldom-given dimension is the drop from the bore axis to the heel and it is 15/16, or a scant inch, in this particular Pup. The buttplate drops 5 5/32 inches (its length) lower to its toe, and it is 1⅞ inches wide. From the top line of the stock straight down to the bottom edge of the pistol grip the wood measures 4½ inches. At the front of the trigger guard the fore stock depth is 1.70 inches, and it tapers to 1¼ inches at the tip which is flush with the muzzle. In the other plane, or crosswise, it is a modified beaver-tail, being 1.30 inches at the tip, 1.50 inches 7½ inches farther back towards the breech, and 1.70 inches at the front edge of the trigger guard.

Barrel and action are, of course, bedded adequately but also more shallowly than is usual. The bore axis is not even with the top line of the stock but a full ⅛th inch above that edge. Genuine horn, black Tennessee tenite and white Moon plastic dress up the fore-end tip and pistol grip, while a No-Slip buttplate assures a secure shoulder contact. Flexible metal bands hold barrel to fore-end, the lower one being adjustable in tension or tightness by a screw, and the rear one holding trigger to barrel. The receiver is solidly anchored by long screws sunk deeply into the bottom of the buttstock, the holes designed to be concealed by neat plugs.

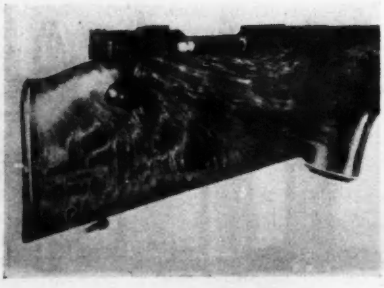
It was Al's idea to use the .220 Swift case in order to get the strength of its solid head construction in a diameter which would suit the Springfield bolt and an extraction groove adapted for the regular rimless extractor of the action. Much discussion preceded the adoption of the final case specifications and drawing in which Carl Nix was the party of the second part. The third prime mover in the project was Al Marciante who made the reamers for chamber and sizing dies. Carl Nix and Al Barr wanted less powder room than that of the standard factory Swift case, the final decision being 30 grains. Sketches were drawn, modified or amplified at critical points, discussed, redrawn and then, finally, sent to Marciante. The finished cartridge is shown (sixth from the left) in the accompanying cut of new or recent wildcats.

This little .220-30 wildcat measures 2 1/16 inches overall with the 55-grain bullet seated 0.19 inch deep. The case is 1.55 inches long, in the following components: neck, .250; shoulder, .100; body, 1.15; and semi-rim, .050 inch. Its head diameter near the base is .443 inch and it tapers only .012 to a diameter of .431 inch at the shoulder, whose angle is approximately 40 degrees. The neck diameter with bullet seated is .262 inch. It holds exactly 30 grains weight of No. 4320 powder sifted level full to the mouth.

Primed with R. A. No. 9½ (modern KB) and compressed with the 55-grain Sisk Express bullet, this is also a safe and practical load and by no means the heaviest used. It is in about the category of 27.5 grains of No. 3031 which occupies the same space. A heavier load with the same bullet and the same density of loading was 26.0 grains of No. 4198. Still heavier was a combination of 13 grains No. 4198 and 14 grains No. 3031. The heaviest load tried, but still safe, was 29¼ grains of HiVel No. 2 with the same 55-grain bullet. This latter, like all other loads, filled the case to its mouth. Under identical conditions the lightest case-filling load of all those tried was 29.0 grains of No. 4350, which burned cleanly in this remarkably versatile case but developed obviously low pressures. Other case-full loads that gave only moderate pressures were: 28.0 grains of No. 4064, 20.5 grains of S.R. No. 4759 and 31.0 grains of the new Western C. Co. Ball powder taken from military cartridges. This load was the only one which deposited any residue in the bore.

Evidently the first two loads, mentioned above as in the same category, are equivalent in power as they gave the same penetration in mild steel. A ½-inch plate was used at 50 yards. The first load sent its bullet to a depth of .475 inch and made a hole .335 inch wide, that of the second load being .475 by .340 inch, or practically the same. The greatest penetration was had with one of the combination loads totaling 27 grains, and these were .485 x .340 inch, minimum, and .505 x .350, maximum. Later, the heaviest load mentioned, a case-full of HiVel No. 2, was tried, and it bested every previous load tested under the same conditions. On the same plate it made a .360 inch hole, .530 inch deep. The filled-case load of No. 4198 made it .480 x .365 inch, the widest hole obtained in that test. For not over 30 grains of powder in a 25-inch barrel that is remarkable penetration; adequate commentary on the power wrapped up in the little package.

Even in longer barrels the .219 Zipper and the .22 Lovell High Power could not approach it with the same bullet and equal or greater loads of the same powder. The Donaldson .22 Wasp came the nearest with ½-grain more powder in a barrel three inches longer than this vicious little .220-30 pill employed. With 30.5 grains of No. 4320 behind the same bullet the .22 Wasp made it .515 x .36 inch, maximum, on the same plate at the same range. The regular .220 Swift and .22 Varminter will accommodate heavier handloads and cannot very well be compared with loads of equal weight, as the .220-30 charges in these bigger cases would reduce the loading density considerably. With their full-power loads, 6½ to 10½ grains greater than those of the .220-30, the Varminter and the Swift send this same 55-grain bullet through the same plate at 50 yards, but not at 100 yards. Neither was a standard factory job and that precludes velocity comparisons. Apparently the m.v. is appreciably



Al Barr's Handsome 'Oly Bull, the Latest Bull Pup and a Close Up (Left) of the Right Side Showing Details of Action and of Figured Walnut from L. McCrea

below 3800 f.s. and considerably above 3300 f.s. with the 55-grain bullet. It may be anywhere between the two figures, and midway, or about 3600 f.s., would be as good a guess as any.

Accuracy tests have been deferred as have trajectory and drop checks until the special scope sight shall have been fitted. However, uniform combustion and grouping (of penetration impacts) in the preliminary shooting indicate fine accuracy is an inherent attribute of this intriguing outfit. This little .220-30 has already stirred up a lot of interest even before it is old enough to have a name. It has been called everything under the sun by its admirers who have referred to it, variously, with such names as: .220 Short, Sprite, Scotch, Hawk, Swallow, Sparrow, Midget, Swift-Short and Gremlin. If readers can think of some more apt name they are invited to mail it to the Dope Bag. Suggestions are always welcome and appreciated.

U. S. SMALL ARMS OF 1943

Daniel Musgrave, of Brooklyn, sent in a handy reference list of small arms which are in current use. They are arranged, below, by caliber. Musgrave says such a complete list has never been so consolidated for presentation in any publication.

CALIBER .22
- Rifle, Springfield, M1922
- Rifle, Springfield, M1922M1
- Rifle, Springfield, M2
- Rifle, Remington, M513
- Rifle, Winchester, M75
- Rifle, Savage, M19
- Machine Gun, Browning, M1
- MG Trainer, Browning, M3
- MG Trainer, Browning, M4

CALIBER .30 CARBINE
- Carbine, Winchester, M1
- Carbine, Winchester, M1A1
- Carbine, Winchester, M1A2

CALIBER .30
- Rifle, Springfield, M1903
- Rifle, Springfield, M1903A1
- Rifle, Springfield, M1903A2
- Rifle, Springfield, M1903A3
- Rifle, Enfield, M1917
- Rifle, Browning, M1918
- Rifle, Browning, M1918A1
- Rifle, Browning, M1918A2
- Rifle, Browning, M1922
- Rifle, Garand, M1
- Rifle, Garand, M1A1
- Machine Gun, Browning, M1917
- Machine Gun, Browning, M1917A1
- Aircraft MG, Browning, M1918M1
- Tank MG, Browning, M1919
- Light MG, Browning, M1919A2
- Light MG, Browning, M1919A4
- Light MG, Browning, M1919A6
- Aircraft MG, Browning, M1919
- Aircraft MG, Browning, M2
- Light MG, Johnson,*

CALIBER .45
- Pistol, Colt, M1911
- Pistol, Colt, M1911A1
- Revolver, Colt, M1917
- Revolver, S. & W., M1917
- Sub-MG, Thompson, M1928A1
- Sub-MG, Thompson, M1
- Sub-MG, Reising,* M2
- Sub-MG, Reising,* M2A1
- Sub-MG, Studler, M3

CALIBER .50
- Machine Gun, Browning, M1921
- Machine Gun, Browning, M1921A1
- Aircraft MG, Browning, M1921
- Machine Gun, Browning, M2 w/c
- Machine Gun, Browning, M2 HB
- Aircraft MG, Browning, M2

12 GAUGE
- Shotgun, Winchester, M97
- Shotgun, Winchester, M12
- Shotgun, Stevens, M620
- Shotgun, Stevens, M620A
- Shotgun, Stevens, M520
- Shotgun, Ithaca, M37
- Shotgun, Remington, M31
- Shotgun, Remington, M11
- Shotgun, Remington, Sportsman
- Shotgun, Savage, M720

10 GAUGE
- Pistol, Very, MkIII
- Pistol, Very, M5

20 MILLIMETER
- Cannon, Oerlikon, M1
- Cannon, Oerlikon, M2

* USMC only.

IDEAL SIDE LEVER SAFETY

Designed for 70 Win. Operates freely. Easily installed. Complete instructions. $2.50 postpaid or installed in bolt. Available out of stock. Folder. SPECIAL SCREWS for attaching WEAVER T mounts (regular side mounts) to guns. 25¢ pair, prepaid. SOME TILDEN MOUNTS now available. Write.

TILDEN MFG. CO., 2750 N. Speer Blvd., Denver, Colo.

KING GUN SIGHT COMPANY

WAR WORK, night and day, leaves us little time for regular customers' orders. We'll do the best we can—but ask your indulgence.

171 SECOND STREET · SAN FRANCISCO · CALIF.

TRADE DOPE

Ipco Colloidal Wads are still being furnished in all forms by Wm. A. Lamb of the Industrial Products Co., who says he uses ingredients adapted for high pressures and high melting points as required in high-velocity ammunition.

* * *

Ithaca Guns won three events and three runner-up places, as well as near spots, in the 1943 Grand American Handicap trap shoot, according to a card from the makers. One of its third places and a runner-up spot were made with perfect scores of 100 x 100.

* * *

Pop Eimer, gunsmith, reports gunsmith Ackley's .22-.250 Mauser shoots well under adverse conditions of light, wind, and position with makeshift loads. His 63-grain Sisk bullets were out of round from pulling, twice, out of other loads. The F.A. primers and I.M.R. No. 17 powder were extracted from 1934 Service ammunition. He used 28 grains, and .046-inch Ipco wads. Even so, he had his four shots in less than ½ inch at 100 yards, when he went up to the target for a look. Then he went back to his rickety rest and put his remaining bullet into the middle of the same group. That Ackley job must be a wonder.

* * *

Varminter Cases may be had from M. O. Smith, of Oneida, Ill., who does a nice job of forming them from .257 Roberts, .256 Newton and .30-'06 cases, done in five operations including reaming. I have examined a lot of these cases made from different lots of brass and they appear to be all right in every respect, although not loaded and fired as yet. I find that their dimensions are right for the chamber and head space of my own Gebby Varminter. Five dies are used on the owner's brass, plus reaming in the fourth die.

SMITH & WESSON Revolvers
SPRINGFIELD, MASS.

POINTER STOCKS Molded in walnut and ebony for Colt Woodsman, Hi-Standard all models, $4.50. Colt and S & W $3.50 and $4.50. Molded in ivory 50¢ extra, for all models. At your dealer or direct. Send for illustrated circular. We are Originators of Plastic Gun Stocks.

WALTER MURAD
1006 El Camino San Carlos, California

PHOTOGRAPHIC CATALOG offering a very fine and unusual collection of weapons consisting of many rarities in wheelock, miquelet lock, flintlock, pill lock and percussion pistols. Also, cased sets of dueling pistols, multi-barreled flint pistols of Museum quality, dagger and sword pistols, blunderbusses, wheelock rifles, plus many fine muskets and rifles, from the flintlock to the bolt action types. Also a fine collection of Japanese weapons and other daggers and swords of every description. Many fine pieces of armor, war relics, medals, ammunition and cartridges for collectors. Price for the catalog is 50¢, postpaid. Coin, please. Our new city shop is just two blocks from Times Square, on 44th Street, between 5th and 6th Avenues. Shop hours are from 10 A.M. to 6 P.M. every day except Sunday. Let us sell your collection or single pieces of firearms, weapons, etc., on consignment. Realize a far better price than selling outright. Write first for particulars.

THOMAS WORONIECKI
MUrray Hill 2-6182
47 West 44th Street New York 18, New York

USED GUNS BOUGHT SOLD-TRADED
State make, model, caliber and condition of guns offered or wanted.
"The Shooter's Bible", 312 pages—$1.00
STOEGER ARMS CORP. 507 Fifth Ave., N.Y.

Catalog No. 23, on "Antique Firearms And Edged Weapons" has been received from Robert Abels of New York City. There are more than a hundred pages of such items and it is profusely illustrated with line cuts; scarcely an item is listed without its sketch.

* * *

New Ring Mounts, with barrel rib has been brought out by barrel-maker Clarence A. Hill, of .22 C.F. fame. For Weaver ¾ inch scopes it seems fine on falling block S.S. rifles. More later, after trial.

* * *

Ellwood Epps, Clinton, Ontario, has issued his list No. 18 of used shotguns, rifles, handguns, scopes, accessories, clothing, ammunition, and miscellaneous items, which might interest our Canadian readers.

* * *

Theodore Dexter, Topeka, Kansas, has sent in part 2 of his 14-page November list of antique arms including some exceptional items; revolvers, rifles and Lewis machine gun with parts list and instructive pamphlet suitable for lecturing or exhibition use.

* * *

Rig, the popular rust inhibiting grease, is now available in its new package, a ¼-pound tube, with no change in price. It is lighter and more convenient than the old can which has gone to war.

* * *

Book List, of selected shooters' volumes, is available from Reed Thompson, Jr., of Lewistown, Pa., who is a dealer in firearms, old and new.

THE ARMS CHEST

THE ARMS CHEST is an open market trading post where manufacturers, dealers, professional gunsmiths, and our own readers may advertise their goods and services to fellow sportsmen at a modest cost.

Returns are uniformly excellent—scores of advertisers report truly phenomenal results.

The rate is ten cents per word *including name and address*, minimum charge $1.50.

Groups of figures are counted as one word, also usual abbreviations made up of single characters or initials. Hyphenated words are counted as two.

Non-specific phrases such as "highest prices paid" and "top prices paid" are objectionable and cannot be accepted; the terms "fair prices paid" or "state price wanted" may be used. A *specific* price must be stated on all *for sale* ads, except that a phrase such as "details on request" may be used when listing *quantities* of similar merchandise or *real estate*.

Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the *5th of the preceding* month.

Please print all advertisements *plainly*—we cannot be responsible for errors due to illegible writing. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and impair the effectiveness of your ad.

We reserve the right to edit all copy to conform with our standards, and to decline or discontinue any advertisement which we consider objectionable. All orders accepted are subject to these conditions.

In describing the CONDITION OF GUNS advertised these standard phrases must be used: PERFECT means factory condition. EXCELLENT means new condition, implying negligible amount of use. VERY GOOD means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. GOOD means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. FAIR means reasonable hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. POOR means marred appearance and pitted or badly worn bore.

ARMS CHEST transactions are based entirely on good faith and mutual satisfaction. Deliberate misrepresentation or disregard for ordinary business ethics will, of course, result in expulsion from N.R.A. Membership and from the columns of the Magazine.

Purchasers who wish to examine, before acceptance, guns or equipment purchased thru these advertisements should request shipment by express, C.O.D. *with examination privileges.*

AUCTION TYPE ADS

Advertisers must state a specific price for items excepting in cases where quantities of similar merchandise are listed. The phrase "details on request" may then be used. But efforts to circumvent this policy by advertisers requesting a higher price than that listed in their classified ads, thus encouraging auction bidding, when brought to our attention, will result in refusal of further advertising from such an advertiser and the rejection of membership renewal.

FIREARMS & SUPPLIES—GENERAL

FOR SALE

52 AND 500 LONG RIFLES, REMODELED TO sporter, perfect bore, good blue, 24" bbl. ramp front, latest 29S, B Mounts. Not speed lock. $65. Stamp for reply. Ed. Leonard, 504 W. 4th, Pittsburg, Kans.

L. C. SMITH SPECIALTY GRADE DOUBLE BARrel shotgun. Factory grading, AS #REOBV, auto ejectors, selective single trigger, beavertail fore-end, 12 gauge, 32 inch, full choke, ventilated rib, guaranteed in perfect condition. Price $135.00. Edgar Klipple, 155 W. River St., Wilkes-Barre, Pa.

PERFECT 6½" COLT WOODSMAN, 500 HIspeed, $65. D. Armbruster, 420 So. 3rd St., Rockford, Ill.

WIN. 70 HORNET, OIL RUBBED STOCK, WHElen sling, slight muzzle bluing defect, excellent. New 3X detachable mount scope, not mounted, shells. $125.00. Roy Bakkum, Waukon, Iowa.

.44 SPECIAL WADCUTTER MOLD $5.00, .45 auto government holster, belt $2.00. 1850 Springfield converted to shotgun $2.75. 12-gauge percussion, double, caps, powder, shot $20.00. S&W .32 Forehand revolver, 30 cartridges $6.75. 1862, .58 Tower Rifle $7.50. Antique candle mold $4.50. Iron candlestick $1.50. .50 Rimfire Remington Rolling Block, 200 cartridges $12.00. 1858 Starr Carbine BL percussion $6.75. 45-70 bayonet scabbard $1.00. Low-power French observation glasses, case $1.80. Q/D scope mounts, adjustments, $4.00. New, Daisy B-B gun $3.25. Cartridges 24, .32 N.P. 72¢. 20, .38 S&W 65¢. Planert's women's hockey shoe skates, 6, excellent $6.00. Leather 10" size 11 woods moccasins $4.50. Gerald Kelver, 906 E. Jackson, Elkhart, Ind.

S&W 44 SPECIAL—NICKEL PLATED, PEARL handles, five inch barrel, excellent $75.00. Also box shells and Hand Tooled Holster $5.00 each. Money Order. Satisfaction guaranteed. John Reinhart, 1201 Pine St., Kilgore, Texas.

EXCELLENT LIGHTWEIGHT FRENCH 12-gauge double shotgun, 29" barrels, weight 6½. Half pistol grip, receiver beautifully engraved, Hawkins pad, $150.00. Perry Smith, Oceanport, New Jersey.

WINCHESTER 70, .257, 330 WEAVER, TACKhole Dot reticule, Stith mount, oilfinish, excellent 277 ctgs, fired 123 shots, $155.00. Charles J. Cooper, Brookview, N. Y.

CATALOG JUST OBTAINED A COLLECTION OF 2000 Modern and Antique handguns, send coin 25¢ for your copy. Colt Officers' Target Model revolver 22 cal. 6" barrel, perfect $85.00. Colt Officers' Target Model revolvers 38 cal. 6" heavy barrel, perfect $85.00. Colt Officers' Model revolver .32, Target Sights, like new $75.00. Public Sport Shops, R-67, 13 So. 16th St., Phila., Pa.

.30-06 SEDGLEY SPRINGFIELD SPORTER, ramp bead front, Lyman rear, sling, sheepskin case, 80 rounds, excellent; $100.00. Earl Newcomer, Chapel Hill, North Carolina.

35 REMINGTON 141 AS NEW—FIRED LESS than 50 times, Lyman sight—40 rounds, $68. "Woodsman" Colt, 6 inch excellent, without grips $40. Smith & Wesson .38 Special, excellent $55. Bill Peden, Clarksville, Ark.

.22 SMITH & WESSON MODEL 1891, SINGLE Action, single shot target pistol, 10" Olympic barrel, Patridge sights, factory walnut grips, perfect condition. $50.00. Andrew Palmer, 205 Hazlewood Avenue, Bridgeport, Connecticut.

.22 COLT ACE #31, EXCELLENT INSIDE, GOOD out, 3 magazines and 250 Palma Veez, $75. Howe-Whelen bolt-sleeve micrometer sight for Springfield. $15. Excellent rare Camille Camillus violin, $2500. Capt. Edw. M. Hoskinson, 238 N. Delphia, Park Ridge, Illinois.

FOR SALE—HIGHLY ENGRAVED EXTRA fancy ejector Marlin O & U 26" 12 gauge, perfect $90.00; Ithaca double ejector, single trigger, beavertail 26", 12 gauge double, excellent $90.00; .220 Swift Winchester bolt action, fine hunting scope, micrometer mounts, nearly perfect, $140.00, 100 rounds $20.00; Targo gun outfit, good, $11.00; Hi-Wall Winchester .22 Hornet, very fancy, perfect, $85.00; Genuine Carl Zeiss camera, Zeiss Tessar lens, grade Ideal, $175.00, including extras, view finder, film pack extra holders, leather case, perfect working order $135.00. Stamp. Charles S. Landis, 631 Harrington St., Wilmington, Delaware.

W. C. SCOTT HAMMERLESS 12 X 32, FULL, engraved, good $100.00. Ithaca Field 20 x 26, modified, good, $50.00. L. C. Smith Ideal, 20 x 26, modified full, $78.50. Adams English 8 x 33 engraved, fine specimen, $35.00. Sedgley Super Sporter .256 Newton on Springfield receiver, ramp front, Lyman rear, checkered P.G. walnut stock, very good, $100.00. Winchester 1910 SL, .401 Automatic, very good $75.00. Winchester 64, .219 Zipper, very good, $65.00. Winchester 52 Target, Lyman 17A front, Lyman receiver rear, scope blocks, very good, $75.00. Colt Pocket Model automatic, .32 caliber, custom reblued, excellent, $32.00. Mauser Pocket Model automatic, .32 caliber, holster, good, $27.50. Colt Pocket Model automatic, .25 caliber, custom, reblued, very good, $25.00. Colt OMT .38 Special heavy barrel, 6" excellent, $65.00. Colt OMT .38 Special, 4½" barrel, very good, $60.00. Colt Shooting Master, .357 Magnum, 6" barrel, sheepskin holster, perfect, $125.00. Many others. List. Stamp. Ed Howe, Coopers Mills, Maine.

SPRINGFIELD STYLE T, 30" BARREL, #1,314,453, .30-06 cal., excellent out, very good in, $115.00; Remington M8, .30 cal., excellent in & out, $65.00; Winchester M21, 12 ga., modified and full, 28", single trigger, automatic ejectors, perfect, unfired, $147.50; Enfield, Winchester, as issued, new, unfired, $52.50; Winchester high side, 2R Johnson, perfect bore, excellent to perfect outside, extremely accurate, $67.50; Super Targetspot, 15 power, perfect optically, excellent outside, $87.50; 200, .30-06 handloaded match ammunition, proved accuracy, $20.00. Robert J. McFeeter, 179 Lincoln Place, Irvington, N. J.

FEDERAL EXPLOSIVES ACT

Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Such license is usually obtainable from your County Court Clerk. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

NEW OPA CEILING PRICES

We call attention to a special list of maximum prices on ammunition effective as of October 7, 1943, and supplementing the existing regulations issued by the Office of Price Administration.

Sec. 6.24 *Ammunition*. This section establishes maximum prices of ammunition, other than hand loaded or military items, for sales at wholesale and retail, *including sales by individuals*.

The maximum price for sales to an ultimate consumer of a box of ammunition not listed below shall be the price per thousand contained in the manufacturers' price lists, in effect during March, 1942, divided by the number of boxes in the thousand.

Maximum Prices for Sales to Consumers

	Price	
	Per box	Per shell or cartridge
12 gauge	**$1.38**	**$.07**
16 gauge	**1.32**	**.07**
20 gauge	**1.32**	**.07**
.22 long rifle, regular	**.34**	**.01**
.22 short, regular	**.21**	**.01**
25-35 Winchester	**1.41**	**.09**
.30-30 Winchester	**1.46**	**.09**
.30 Remington	**1.46**	**.09**
.300 Savage-Remington	**1.85**	**.12**
.32 Winchester Special	**1.46**	**.09**
.35 Remington	**1.64**	**.10**
.270 Winchester	**2.10**	**.13**

COLT SUPER .38 AUTO, EXCELLENT, $60.00; Luger 9mm, excellent, 2 boxes ctgs., $60.00; S.A.A., .41, $25.00; S.A.A., .45 Colt, very good, box ctgs., $45.00; two Colt Bisleys, .38-40, $30.00; .32-20, $35.00; Merwin Hulbert, .38 S&W ctg., $12.50; Baby Hammerless rev., .22, pearl handles, $7.50; Belgian rev., .32 Short CF, engraved, gold inlaid, pearl handles, $12.50; Remington Model 4 rifle, .25 RF, 1½ boxes ctgs., $7.50; Winchester low wall, .22 WCF, $10.00; Winchester Model 01, 10 Ga., $15.00; German Signal pistol, $5.00; Savage .32 Auto, 25 ctgs., $17.50. H. L. Remmel, 1622 Center Street, Little Rock, Arkansas. Life Member.

S&W 22-32, PERFECT IN, EXCELLENT OUT, not recessed, 200 Kleanbore, $50.00. British Army Signal Corps telescope, 18X and 28X eyepieces, optically perfect, strong tripod, $35.00. Heavy barreled Niedner M52 (details for stamp) $85.00. Q. D. Foster, Delaware, Ohio.

.39 SPEC. OFFICERS' MODEL, 7½" BARREL, outside good, inside very good, 250 home loads, $58.00. Arnold Sanborn, Hamilton, New York.

FOR SALE—L. C. SMITH FIELD GRADE 20 gauge shotgun, Hunter selective single trigger, Beavertailed forearm, 28" barrels, full & modified, excellent, with 4 boxes shells and canvas case. $80.00. Winchester 116 primers in ratio of 200 primers 1 lb powder. $5.00. Powder furnished in 2400, 4227, 4064, 4350, 4320, 3031, 4198, H.V.2. Powder sold separately at $2.00 per lb. Clarence Helmricks, Ray, Ariz.

SAVAGE MODEL 430-20 GA. OVERUNDER, 28" Full & Modified, new in factory box, with 50 shells $50.00. Stevens Model 240-410 ga. Overunder, 26" full, in factory box with 25 shells, $20.00. New 20X eyepiece for 55MM. Argus $6.00; New extra barrel for Remington Model 31, 20 ga., 26" Imp. Cyl. $15.00. 230, No. 2½ nickeled primers, Nonmercuric $4.00, Lyman 103 tang peep sight, excellent, $5.00. Lyman 17A front for Winchester Model 52, perfect, $2.25. J. L. Vincent, Sporting Goods, Aud, Missouri.

.250-300 SAVAGE 99 G, 36 CARTRIDGES, empties, case, inside excellent, outside good. $45.00. James Barry, 29 Kenilworth Rd., Wellesley, Mass.

COLT .38 O.M.T. 7½" V.G. STAG GRIPS, HOLster, ctgs. $70. Marlin .38-40 rifle, V.G. $30, ctgs. Sheffield Bowie knife, stag handles, $7.00, Plain Bowie knife, stag, $3.50. Dated Powder horns 1853 and 1837 ship incised, another with Eagle 1831, $6.00 each. Roy Vail, Warwick, N. Y.

FOR SALE—1917 COLT .45 STILL IN FACTORY grease, slight blue wear or storage marks outside, $60.00. 1917 S&W .45, same as above $60.00. Colt Caliber .25 automatic factory box, new condition, 1 box ammunition, $25.00, caliber .44 Spec. S&W 5" barrel, King red ramp front, White outline rear, humpback hammer, ivory stocks, excellent to new $75.00. Model C Hi-Standard 6¾" barrel excellent to new, $35.00. Colt .380 automatic very good to excellent, $30.00. Colt 45 Model 1911 automatic, reblued, very good, $45.00. Another new stocks arched housing, target sights, excellent, $60.00. Have some cartridges for all above guns. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

.30-'06 SPRINGFIELD SPORTER, NEW BARREL, new blue, new Bishop stock, fittings silver plated, $90.00. .30 Remington pump, leather case, box Silver Tip shells, excellent in, very good out, $50.00. 9mm Luger, 3⅝", silver plated Franzite grips, excellent, $50.00. .22 Bisley, silver plated, Stag grips, excellent out, very good in, $50.00. .32 Colt Automatic, good, some shells, $35.00. Six boxes .32 Long Colt cartridges, $2.00 box. 6mm Lee, soft point, old shells, 6¢ ea. Wanted—Colt Ace and engraved .45 SA and .45 Colt Automatic. Write for list of other guns. M/Sgt. A. L. Jeary, Jr., Station Hospital, Camp Bowie, Texas.

LATEST 52 HB, 48J, 77, SHEEPSKIN CASE, PERfect, $65.00. Sgt. Richard Hardy, Co. B, 86th Inf., A.P.O. 345, Camp Hale, Colorado.

WINCHESTER MODEL 70 SWIFT, EQUIPPED with 24½", 1¾" Ob., 10X Litschert scope, 240 Factory loads, 120 custom reloads, outfit purchased new 2 yrs. ago; first money order $165.00 gets it. Harold Hemmelgarn, R. R. 1, Box 105, Maria Stien, Ohio.

COLT AUTOMATIC .380, COMPLETE WITH shoulder holster and 50 shells, perfect inside and out; $40.00. Howard Frank, 2025 Hillyer Place, N. W., Washington, D. C.

KRAG, AS ISSUE, EXCELLENT IN AND OUT, $40.00. Remington Mod. 34 .22 cal., excellent in, very good out, restocked, detachable swivels, with 4 power Ranger scope, $35.00, some amo. Win. Mod. 70 Swift, detachable high comb, excellent in, very good out, $75.00 or with 8 power Unertl scope, 2 boxes shells, $140.00. Money orders only. C. A. Hassinger, 482 Davey Ave., Mansfield, Ohio.

WINCHESTER 70-'06 REGULAR AND REDfield front, 48 rear, very good, 180 various loads, plus new ideal tool, cases, powder, primers, $125.00. Walnut Hill 417, very good, 17A, and 103 and Lyman 5A scope, Freeland sling, 500 rounds expert, $75.00. William Nimmo, 11 William Street, Belleville, New Jersey.

COLTS FRONTIER, 44-40-7½ IN., GOOD WITH 119 ctgs and hand carved Heiser belt, $30.00. Webley 455—6 in., Mark VII, 92 ctgs, very good, $35. Webley target SS pistol, good 22 LR cal, with 350 .22 ctgs, $27.00. Letters only. Francis W. James, 7725 Ardleigh, Chestnut Hill, Phila., Penna.

EXCELLENT FREDERICK POST PRIMO 638, 12 piece drawing set $50; Double Empire Blue 4 point Hudson Bay Blanket $60; Genuine Italian Walnut rifle blank plain $8; Two double cavity .38 bullet molds, one for Magnum, $10 each: seven extra select .38-44 tooled holsters. Three matched pairs right and left with belt to match. Stamp for pictures and prices. Highest grade of workmanship. Parker 22 cleaning rod with imported wire brush $5. A. E. Osborn, Box 81, Fort Smith, Arkansas.

COLT POLICE POSITIVE SPECIAL, 38 CAL. blued. Perfect condition, guaranteed as NEW. In factory box. With cartridges. $55.00. H. E. Todd, Mount Ayr, Iowa.

SMITH DOUBLE TRAP GRADE E.O.V.B. SHEEPskin case. New condition. Barrels 32 inches. Bored at factory for 65 and 75 percent patterns. $150.00. Inspection allowed. Wm. L. Murphy, 760 First Nat'l Bldg., Oklahoma City, Okla.

NEW WINCHESTER AUTOMATIC MODEL 74—22 short, $24.00. Excellent Fieldmaster $38.00. Binoculars 6x30 U.S. Army $66.00. Colt .45 Auto., holster, mold, ammunition, extras, $78.00. .38 Special $30.00. 30-06 ammunition 6¢. 7.63 Mauser 4¢. Chester Gajewski, Pulaski, Wisc.

YESTERDAY . . . . For over 40 years sport-loving Americans turned to Wollensak for binoculars, sport glasses, telescopes, spotting scopes.

TODAY . . . Wollensak optical skill is devoted to producing weapons of War . . . the gun sight shown in the official U. S. Navy Photograph above . . . lenses and shutters for aerial photography . . . binoculars and other precision optical instruments, widely used on the many fighting fronts.

TOMORROW . . . The many fine Wollensak glasses will be available again—in greater quantities than ever before, improved by today's skill and precision in manufacture.

BUY WAR BONDS - TO PROTECT YOUR FUTURE

Wollensak

ROCHESTER, N. Y., U. S. A.

WINCHESTER 75 V.G.; LYMAN 77 AND 58E: Merit disc, sling; 1000 Kleanbore, $50.00. C. McKay, 148 Maple, Rhinelander, Wisconsin.

S&W .22 SINGLE SHOT PISTOL, 10 INCH BARrel, automatic re-bounding lock, walnut grip, in excellent condition. Price $30.00. McD. Pettway, P. O. Box 14, Knoxville, Tennessee.

.32 COLT AUTOMATIC, 119 CARTRIDGES, HOLster, perfect, $30.00. Pair of Hodgman waders, size 12, like new, $12.50. True Temper, finest grade 2 piece tubular fly rod, bass action, used twice, $22.00, perfect. Outboard motor, Elto Fisherman, mechanically perfect, shows 2 seasons usage, $50.00. Daniel T. Rutledge, 138 N. Prince St., Lancaster, Pa.

SPRINGFIELD STRIPPED RECEIVERS, AS ISsued $7.50, heat treated $9.00 each. All parts for .45 Automatic, except frames and barrels. Browning Automatic 12 Ga. shotgun in excellent condition and one box shells, $65.00. Prices f.o.b. Phila. No C.O.D.; no orders less than $1.00, please. E. S. Burrell, 717 Wyndmoor Ave., Phila. 18, Pa.

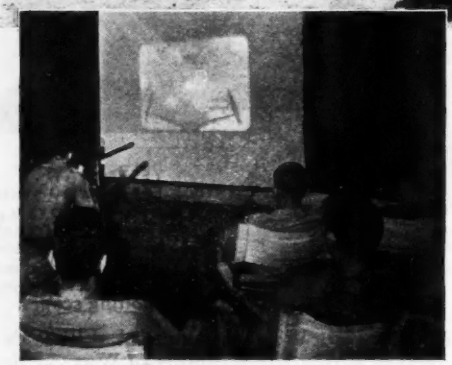
.45 COLT FRONTIER 7½" VERY GOOD, PLASTic stag grips. 160 rounds, Heiser Holster, $38.00. V. E. Recane, 424 No. Lockwood Ave., Chicago, Ill.

S&W 45, BLUE, 6 INCH BARREL. EXCELLENT $55.00, Parker Trap Gun, Custom built, 12 gauge, double barrel, 30 inch, excellent, $195.00. E. D. Ramage, 28 Bainbridge Road, West Hartford, Conn.

SELL—FRANCOTTE 12 GAUGE DOUBLE, EXcellent $300, as issued Krags good with sling $30.00, bayonets $5.00, Luger 9mm., 8" barrel good $40.00, Winchester 1895, .30-'06, good $30.00, used army holsters $4.00. J. K. Dering, 663 Walden Road, Winnetka, Illinois.

.30-06 M1 CARTRIDGES F.A. LOT NUMBER 2083, 1938 loading perfect condition $9.50 per 100. 30-06 M1 cartridges, F.A. Number 1775 in boxes of 20, 1934 loading, perfect condition $8.00 per 100, Winchester Enfield No. 536297 Stoeger Sporting stock with cheek rest, military sights, bore and action excellent, finish good, 20, 220 soft point cartridges, 20, M1 Boattails, $52.50. Winchester Model 97, 12 ga. pump, 30". Full, fair condition, $16.00. Hercules 16 ga. double, 30", full and modified, single trigger, recoil pad, very good to excellent, $21.00. H & R, .22 caliber revolver Model 922 excellent inside and out $15.00. J. L. Vincent, Sporting Goods, Aud, Missouri.

AERIAL GUNNERS TRAIN WITH LYMAN CUTTS COMP



At a U. S. Naval Air Gunners' School. Official U. S. Navy Photo.

These boys will soon be free gunners on torpedo planes and dive bombers. Here they practice what they will do when they meet their first enemy plane. Over on the Skeet field under the tutelage of battle-hardened marksmen they put in many hours of Skeet shooting to learn the art of hitting their targets on the wing.

Official U. S. Navy Photo.

Both Army and Navy Air Forces use the Comp in primary training.

Lyman Sights

Metallic & Telescopic Sights • Ideal Tools • Cutts Comp.

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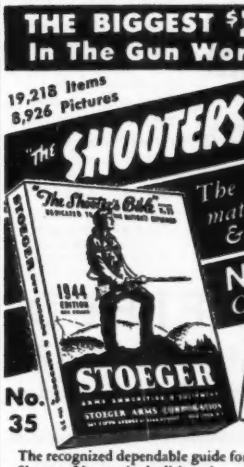

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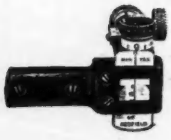

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COLT SINGLE ACTION 7½", .38-40 VERY good, $40.00. Sharps Side Hammer, 28" round barrel. .45-70, very good inside, good outside, double-set triggers, checkered grip $30.00. 1886 Winchester, .38-56, single-set trigger, 26" octagon barrel, very good outside, good inside except small rust streak, accurate, box cartridges, tools-mould. $35.00. O. H. Dunham, 995 West Eldorado, Decatur, Illinois.

SPRINGFIELD MUSKET, FAIR, $5.00; ZULU, fair, $5.00; Springfield .45-70, fair, $6.00; Remington .50-70, good, $11.00; Savage .22 Hipower, fair, $21.00; Remington .25-20 repeater, fine, $25.00; Stevens Pope 44½, 32 Ideal, peep, fine, shells, $50.00. Ralph Drake, Osborne, Kansas.

CATALOG JUST OBTAINED A COLLECTION OF 2000 Modern and Antique handguns, send coin 25¢ for your copy. Shotgun 8 ga. Holland & Holland Custom Made English DB hammerless engraved action, cost originally $2000. Excellent $150.00. Shotgun, hammer type, Live Pigeon Gun by Wm. Ford. Custom made in England, 32" fluid steel, modified and full choke, like new $125.00. Public Sports Shops, R-67, 13 S. 16th St., Phila. Penna.

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S&W .44 SPL. TARGET, EXCELLENT, CARtridges, $65.00. Luger 9mm, 8" barrel, good in, poor outside, 2 magazines, cartridges, $55.00. S&W 38 hammerless, nickel, cartridges, good, $25.00. Springfield .45-70, V.G., $6.50. Marlin .30-'06 aircraft M.G. World War relic, $19.00. Wm. Hansen, R3, Niles, Michigan.

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COLT ACE .22 CALIBER AUTO. PISTOL, EXcellent, Western Glove Co., sheepskin holster, $80.00. John G. Mohl, 35 Corwin Avenue, New Hyde Park, N. Y.

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MODEL 70 WINCHESTER, SUPER GRADE, 257 Roberts, Weaver 330 Scope, Stith Mount, detachable swivels, sling, factory condition, $200.00. Savage Model 99EG, .300 caliber, factory condition, $85.00. Savage Model 99, .303 caliber, excellent, $65.00. Remington Model 141 Gamemaster, .32 caliber, excellent, $80.00. Remington Sportsman 16 gauge automatic, ventilated rib and Cutts Compensator, excellent, $110.00. John Laraia, 365 Shrewsbury St., Worcester, Mass.

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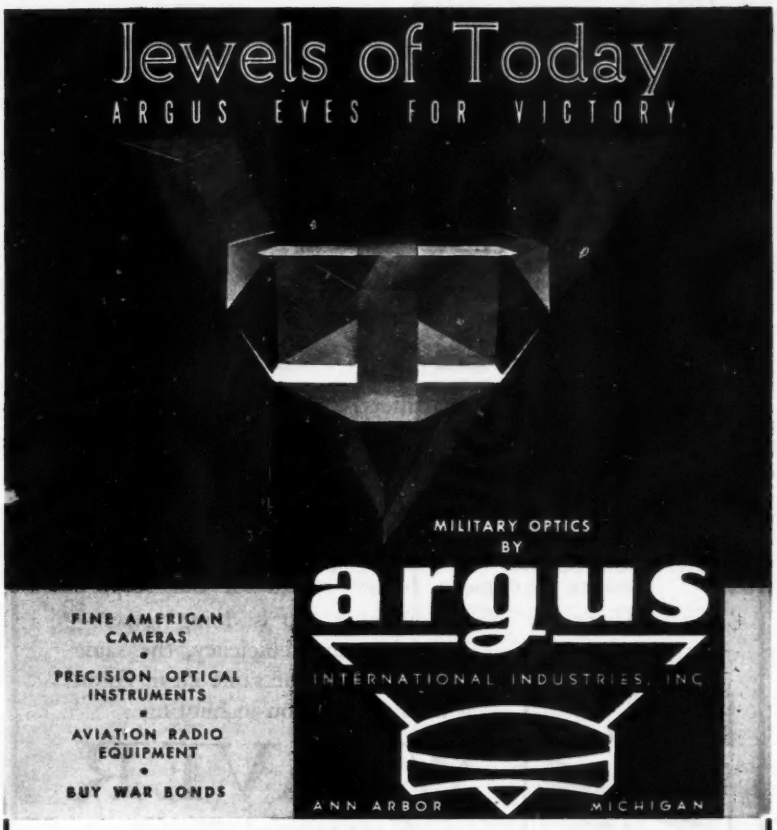

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SMITH & WESSON K 22, FOUR INCH BBL., CUSTom job by King, ramp front. King action, skeletonized hammer, Roper stocks, 10 boxes ammunition, perfect, $125.00. Harold J. Darcy, 3623 Cherry St., New Orleans 18, La.

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REMINGTON .35 MODEL 141 NEW CONDITION case, q.d., swivels, sling, 2 boxes each 150 and 200 grain ammunition $85.00 extra cartridges available. J. B. Rock, 2239 St. Johns Ave., Jacksonville, Fla.

SPRINGFIELD BARREL AND ACTION, 48 ramp, no stock excellent, $54.00 with Redfield 102 $50.00. Mexican 7mm. Mauser as issued, excellent $40.00. Enfield .303 British as issued, excellent, $35.00. Heavy barrel only for Springfield M2, .22, excellent $25.00. Springfield converted to .22 Hornet. Heavy barrel by Dubiel, Fecker 1⅛", excellent, $125.00. Winchester SS Highwall Hornet, 52 barrel, pistol grip, excellent, blocks only, $55.00. Winchester .300 Magnum Super Grade, ¼ min. 48, Griffin & Howe double lever mount. Hensoldt 2¼X Zielyt, excellent, $250.00. Colt Bisley 38 Special, excellent, $55.00. S&W, M&P .38 Special, very good, $45.00. Colt Lightning 32-20 very good, $40.00, S&W 1917 barrels, $7.00, 1917 Colt barrels $4.50. .45 Auto barrels $4.00. Charles Sprenger, 3236 A. St., Phila., Penna.

GUNS AND AMMUNITION FOR SALE—CASH only as follows: .22 Hornet Winchester Model 54, with Weaver detachable telescopic sight, Lyman 48J Target sight, cleaning accessories and Abercrombie & Fitch case. Excellent factory condition. With 400 rounds ammunition. $175.00. .22 Long Rifle Remington Automatic, cleaning accessories, with 1500 rounds ammunition. Good factory condition. $75.00. .32 Colt automatic pistol, cleaning accessories with 100 rounds ammunition, asking $50.00. Excellent factory condition. .22 Colt Police Positive Target pistol six inch barrel, weight 38 ounces, cleaning accessories, with 1500 rounds ammunition. Excellent factory condition. Asking $100.00. Am interested in any offers. Bache Hamilton Brown, Jr., Columbia Club, 4 West 43rd Street, New York City.

TWO WINCHESTER HI-WALL ACTIONS TIGHT as new, double set triggers $27.50, single trigger $22.50. 22 Hornet Lo-Wall action, fair, barrel good. $22.50. Springfield .22 caliber, Model M1, Lyman 48 rear globe front, scope blocks, checkered stock, beautiful gun, excellent to perfect, $70.00. Model 1909, .22 caliber savage, $17.50 good. 765 mm. Ortgies Automatic, fair except barrel rough, $15.00. Life Member, S. S. Clark, 3024 Alabama Ave., St. Louis Park 16, Minnesota.

WINCHESTER 40-12 GAUGE AUTO, SKEET, EXcellent, $95.00. Sauer 12-28 I cyl. & Model refinished, reblued, $145.00. Parker 12-28 V.H.E., I cyl. & Model, near excellent, $95.00. Merkel 12 gauge 28 Model & full, ejectors, pad, straight grip, excellent, $155.00. Ithaca 12-32 #4 Trap, ventilated, I cyl. & Model, $125.00. Winchester 52-H.B. Lymans, case, sling, very good out, excellent in, $75.00. Same, trunk case, Marble-Goss rear, $80.00. Hi. # Springfield action complete, less barrel, $28.50. Mauser 98 complete action, very good, $25.00. 10 boxes 9mm Mauser & Mannlicher, corrosive, $30.00. 5 boxes 40-72 Remington Kleanbore, $15.00. Herman Treptow, 209 So. Main Street, Milltown, N. J.

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S&W MAGNUM, 6½" BARREL, KING SHORT action, double cockeyed hammer, Whitex front, Roper and Magna stocks, excellent, 47 Magnum, 50 Wadcutters, M. O. $155.00. Member. Carl Baxter, Decatur, Indiana.

REMINGTON EXPRESS .30-'06, REDFIELD rear, gold bead front, Government sling, 500 M-1 .30-'06 late issue, very good condition, $125.00. S. V. Cooney, Glenwood, Iowa.

M70 WINCHESTER SWIFT, TARGET BARREL, standard stock, 10X Fecker, 1⅛ inch, 300 factory loads, no sling, excellent, first M. O., $200.00. Arnold Mears, 825 Dewees Avenue, Nashville, Tenn.

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NEW MODEL 70, .30-'06. FIRED 5 SIGHTING shots, Lyman rear, sling, 55 soft point cartridges, 40 other. Ideal #311413 bullet mold dipper, 200, 169 gr. cast, 250 metal point bullets, 180 gas checks. First Money Order $130.00. Wanted—.257 bullets, primers. Chas. D. Armstrong, 5068 W. 15th, Indianapolis, Ind.

MODEL 93 MAUSER SPORTER. 7MM 24 RAMP front, Redfield 102 rear p. g. stock, very good, with 60 cartridges, $68.00. Inspection allowed. 48 W. J. S. new $12.00. S. Erickson, 8 E. 6th St., Oil City, Pa.

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COLT .32 AUTO, NEAR PERFECT, BOX CARtridges, $30.50. I. J. Supershot, inside perfect, 250 shorts, $21.50. Remington 12-B, 250 shorts, $20.00. I. J. 410 single, few shells, $5.75. Ammunition .22 H.P., .25-35 at 11¢; .38 A.C.P., 6½¢. 25 Stevens shorts, 2¼¢; 28 ga. #6c, 7¢. Man's fur overcoat, horsehide, size 44. $25.00. Stamp please. Rudolph Schreiner, Palmyra, Nebraska.

REMINGTON ENFIELD SPORTER, 29S WEAver, B mounts, good, $85.00. Woodsman, 6 in., like new, $50.00. H&R 22 Special H F, excellent. $30.00; German Mauser, 25 cal., 50 rounds, like new, $30.00; Colt .32-20 and 32 Police Positive, 4 in. bbls., good, $22.50 each. Mercury Univex, F3.2 lens, leather case, syncro flash, shade, yellow filter, light meter. Like new. $35.00. Ernie Breyer, Fargo, No. Dakota.

S&W MAG. TARGET REVOLVER, 6½ BBL., extra stocks, 100 rounds ammunition, sheepskin holster, excellent, $110.00. Colt P.P. 22, 6" bbl., sheepskin holster, 100 rounds ammunition, excellent, $75.00. S&W, 22-32 target, 6" bbl., extra stocks, sheepskin holster, 100 rounds ammunition, excellent, $75.00. Binoculars, Wollensak, 8X30, case and straps excellent, $110.00. Lionel Scale Model Train, 00 gauge, extras and transformer. $85.00. Leo J. Warner, 1122 Market St., McKeesport, Pa. Life Member.

SMITH & WESSON MAGNUM, EXCELLENT condition, write for details, price. Fred Pearce, Jr., 22 Arrandale Ave., Great Neck, N. Y.

THREE .32 REVOLVERS, FAIR, $12.00 EACH. .22 Ranger repeater, excellent, $22.00. .22 Stevens Automatic, perfect, $30.00. .410 single, good, $8.00; Ranger pump 16—22", good, $25.00. .25-35 Winchester, good, $20.00. .38 Special precision reloads, $1.50. 7.62 Russian, $2.00. .38 Special Officer's Model, excellent, $65.00. C. C. Yant, 933 So. Hadden, El Reno, Oklahoma.

S&W .38 SPECIAL M&P, 4", NEW, PERFECT, sandblast finish, navy grade, hand finished action, holster, belt, 50 cartridges, $55.00. Ben Vaupel, Mt. Vernon, Indiana.

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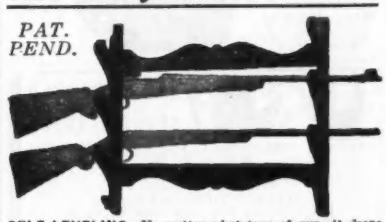

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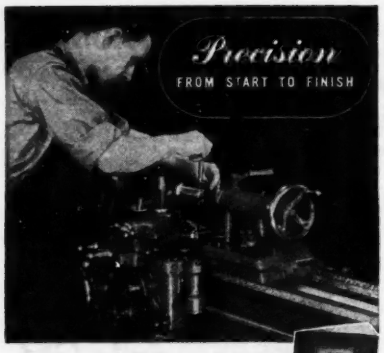

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WINCHESTER 52 H.B. LATEST MODEL, NEW condition sighting shots only, sights, sling $80.00. Match target Woodsman, Sanderson stocks, sheepskin holster, excellent $75.00. 6½" Woodsman, new Heiser holster, good, $55.00. 6X binoculars, case, good, $30.00, 1873 Winchester, 38-40, poor, $10.00. Want 30-06, ace, 4½" Woodsman, 22-32, Kit-Gun, Springfield. Frank Poock, 54 Federal, Reading, Mass.

MIRAKEL DAYLUX 8x24, SLIGHTLY WORN, optically O.K., leather case $25.00. H&R sportsman single action, holster, sheepskin case. Marble rod, very good, $32.00. Trade both for Winchester Model 12 or 40, 12 gauge, or Savage 99T or 99RS, .300. Henry Eggers, Lutsen, Minn.

.35 REMINGTON 14 PUMP, FORTY SHELLS, $60. 30-'06 Winchester 54, $65.00. .30-30 Winchester 94 carbine, special sights, $45.00. .405 Winchester 95, 44 shells, $45.00. High side-wall Hornet, custom, $75.00, with hundred reloads. K-22 $65.00. Match Target, 500 shells, $75.00. WANT: .45 Auto, Models E and D Hi-Standard. .32 Auto shells and clips. Old-style Woodsman clips and holster. Lyman or Fecker scope mounts. N. M. George, Box 206, Riverhead, N. Y.

OFFICERS' MODEL HEAVY BARREL .32, PERfect. Bucanan 4 gun case tan, B&L 20X scope, carbide lamp. $120. 4000-primers-300, .32 empties, 2# bullseye. 1000, .38 empties, Pacific tool .38 and .32 dies. Ideal sizer & lubricator .38, $87.50, Trade for 8mm. Movie outfit. Ralph Slatten, Box 66, Silver Springs, Florida.

POSTAGE STAMP COLLECTION GENERAL, foreign over five thousand different varieties, mounted in Scotts Junior Album, United States collection over five hundred different mint commemorative stamps unused in sets and blocks of four. Bargain for fifty dollars cash or .22 cal. Officers' Model or high speed Woodsman, fine condition. Dr. A. D. Caldwell, P.O. Box 129, Bancroft, Nebraska.

14 HARRY COOPER GOLF CLUBS (STEEL shafts) and Spaulding canvas bag $100.—or trade. Write for details. Arthur Leidesdorf, Elberon, New Jersey.

23D IMPROVED K-HORNET, FACTORY NEW, 134 cartridges, $58.50. Dalrymple S.A.A. smoothbore, 7½", tools, ammunition, $30.00. S.A.A. .45, 7½", good, $24.00. Money orders. Particulars stamp. Want—Hi-Wall, 44½. B. Tomlinson, 28 West 44th, New York City.

I-52 WINCHESTER (NEVER FIRED) STD BARrel. Vaver ext, rear, 17-A front, sling, in factory grease. 400 L.R. shells. $100.00. Savage 22 Hi-Power, Model 99, 20" bbl in fine shape, 5 boxes factory shells, $60.00. W70 Hornet, nearly new, 48W ramp front, sling, improved Winchester scope. 6 boxes factory ammunition, 100 bullets, 100 primers, pound 4227 powder, $140.00. All Guns F.O.B. Rainsboro, Ohio. C. F. Barton, Rainsboro, Ohio.

2", .38 DETECTIVE SPECIAL WITH AUDLEY holster, perfect $55.00. 4", .38 Official Police, perfect except for slight bluing wear at muzzle. $50.00. New Service 5½", .45 cal. Colt (not automatic) perfect in, excellent plus out. $45.00 with 28 rounds ammunition, 32-20 S&W., 6" nickel excellent to perfect in and out $37.50. Emil McConnell, Mt. Arlington, N. J.

.38 COLT OFFICIAL POLICE, 5", VERY GOOD, adapter, shoulder and belt holster, 650 rounds of .38 Special Ammunition, $75.00. Want excellent 52 Sporter. Parks Bacon, El Dorado Springs, Mo.

.38 S&W SPECIAL BLUE, 4½" EXCELLENT inside, mechanically perfect, good out $36.00. Want case each of 12 and 20 gauge maximum loaded shells 2¾" No. 4-5 shot. Quote cash price. 32 Shot Luger Drum $6.00. D. B. Conley, Swampton, Ky.

TOP 38, HEAVY BARREL, SPECIAL PACHMYR hammer and trigger, 750 rounds match ammunition, Wollensak 20X drawscope, 500 empties, 600 primers, $125 or will trade for ? Elmer Le Pointe, 417 Franklin, Oneida, N. Y.

.357 S&W 6" MAGNUM, PERFECT, SHEEPSKIN, 200 cartridges $130. New or perfect Colt .45 SAA .45 Auto, .38 Super; .22 H-S Auto; .30-30 Winchester 94, Marlin 36A; .35 Remington M81; .450 Cogswell & Harrison Hammerless Double Express rifle. Others, cartridges with all. Stamp for list. Want poor-good Springfields, Enfields, Krags. Michael Brothers, 95 Balsam, Bridgeport, Conn.

ONE SAVAGE 99, .30-30 CARBINE, EXCELLENT in, good to very good out, one box shells, $45.00. One Savage 99, .30-30 carbine, fair, one box shells. $30.00. Wanted—S&W 1917 commercial with target sights, must be excellent to perfect, and Marlin 90, 16 and 410 with 26" barrels, excellent or better. Judson M. Kneece, 513 Columbia Drive, Tampa, 6, Florida.

WINCHESTER HEAVY BARREL 52, EXCELlent condition, stock shortened, beavertail forearm, Lyman 48 F.H. and 77, and 10 power Targetspot, special sling and 6 extra clips, long and short, all in wooden compartment case plush lined. Price $195.00 or will trade for 12 gauge Parker hammerless double barrel in excellent condition, single selective trigger, automatic selective ejectors and pistol grip. State grade, choke, barrel length and full description. Taylor G. Burton, Grangeville, Idaho.

COLT .45 AUTOMATIC, ARCHED HOUSING, Franzite Ivory, good out, excellent in, extra magazine, 50 cartridges, $55.00. Mauser lightweight Sporter, 8mm, fair to good, in, excellent out, recoil pad, D.S.T., Fuess-Steglitz 3X Hunting scope, sling, 100 fresh cartridges, $95. Want .375 Magnum. Capt. Buck Brown, Rt. #1, Largo, Florida.

SISK .223—50 GR. LOVELLS $5.50 PER HUNdred. Model 70 Winchester, Weaver 330, perfect $175.00. Model 63 Winchester, Lyman sights, excellent, $45.00. Model 70, .250-3000 and .257 barrels, perfect $30.00 each. Model 70 Stock perfect $15.00. Weaver 1X Shotgun scope, B mounts perfect $35.00. Weaver 12 ga. shotgun choke 3, tubes, perfect, $12.50. Weaver 29S scope, perfect, $16.00. Pacific scales with weights, $15.00. Fairbanks scales, perfect, $30.00. Hensoldt 2¼X with Redfield latest Senior mounts for 70, $125.00. Winchester model 12 skeet with Cutts, perfect, $125.00. Pay cash or trade any or all of the above for high grade double barrel shotgun. Louis Bairo, 711 Professional Bldg. Phoenix, Arizona.

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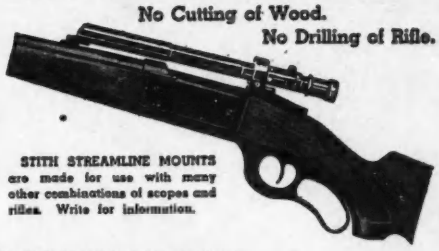

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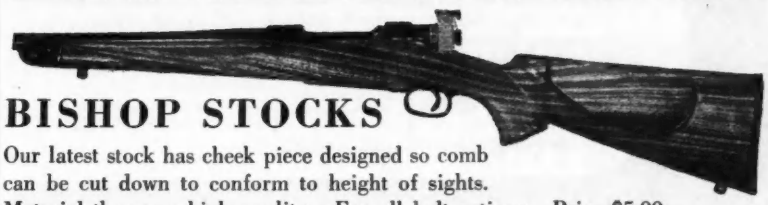


BISHOP STOCKS

Our latest stock has cheek piece designed so comb can be cut down to conform to height of sights. Material the same high quality. For all bolt actions. Price $5.00. Mannlicher type $7.50. Shipping weight of stock, 4 pounds. Catalog ready.

E. C. BISHOP & SON Warsaw, Missouri

REMINGTON AUTOMATIC 12 GA. 28" CYL. $48, Belgium Browning Automatic 16 Ga. 28, Mod., $65. Want: 38 special or .45 Colt S. A. A., or Bisley and S. S. Lovell. Paul Popham, Herrin, Ill.

VARMINTER RIFLE—SUKALLE BARREL, ACcurate; Hepburn set trigger action; Extra select walnut wood: Built by John Bishop as a personal rifle. Show piece plus quality. Write for detailed description. Loading dies to fit Pacific tool. Weaver 330 scope, fifty cases $165.00 or less scope but with blocks, $135.00. I am interested in 7 x 50 binoculars, best quality. Guss Salley, Warsaw, Missouri.

TRADE—PARKER D H. 12 GAUGE 30 FULL, very good for same in 20 gauge or $125.00. The Cushion Pad Co. Box 81, Sioux Falls, South Dakota.

FOR SALE—M 70 HORNET; 8 POWER WINchester scope, sling. Perfect except small dent in forearm and blue worn on trigger guard, 50 cartridges, $115.00 Less scope, $100.00. Want 1000 1½ NMNC primers. Cash or exchange Hornet handloads. W. T. Gibson, 215 West Short Street, Lexington, Ky.

HENSOLDT WETZLAR SCOPE 4X WITH G&H single lever mount $100.00. N.R.A. Spotting Scope 19.5 with tripod and case, new, $95.00. Detective dictograph, new condition, $90.00. Lewis percussion rifle, false muzzle perfect in, good out, $85.00. Beautiful Kentucky rifle, accurate and good, $80.00. Offhand Kentucky rifle, unusually good, $75.00. Very pistol 1", perfect in good out, $25.00. D. M. Lefevre & Son double 16 x 28 engraved, Krupp barrels beautiful gun, excellent condition. WANT—Winchester 70 Swift, .30-30 Carbine S&W Magnum, Masterpiece, Outdoorsman, .38 M & P, 2" Colt detective Special, Shotgun shells. High Grade Watch. F. W. Paulson, 19101 Shalser Blvd., Shalser Heights, Ohio.

COLT, "NEW SERVICE," 45, NEW; $59.00. Colt automatic, .32 like new; $39.00. Holster and ammunition. Want—Camera, 35mm. or binoculars. S. de Ranitz, Reserve Officer's Training Corps, Prairie du Chien, Wisconsin.

USED MODERN AND ANTIQUE FIREARMS, bought, sold and traded. Write me your wants, or what you wish to sell. Do not ship unless notified. Large catalogue of fine arms available, send 25¢ in coin to cover costs, same will be refunded on first order. Trembly Arms, 106 Andover St., Lawrence, Mass. tf

FOR SALE OR TRADE—S&W, M&P, 6", .32-20 nickel plated, excellent $45.00. S&W, M&P, 4", blue worn slight scratches on barrel & side of frame. 38 Special $45.00. Model 92 Winchester Carbine .38 W C F. Two boxes Winchester High speed cartridges, $45.00. .30-40 Krag cut to sporter, Pacific rear, Two boxes, .30-40-220 U. S. Army Peters cartridges $50.00. 1890 caliber 22 lever action Marlin, excellent, $40.00. WANT, .270 bullets, Ideal Powder measure, or what have you. Will swap 150 gr. F.A. 30 caliber bullets, for .270 or .22 caliber Sisk or Wotkyns-Morse. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

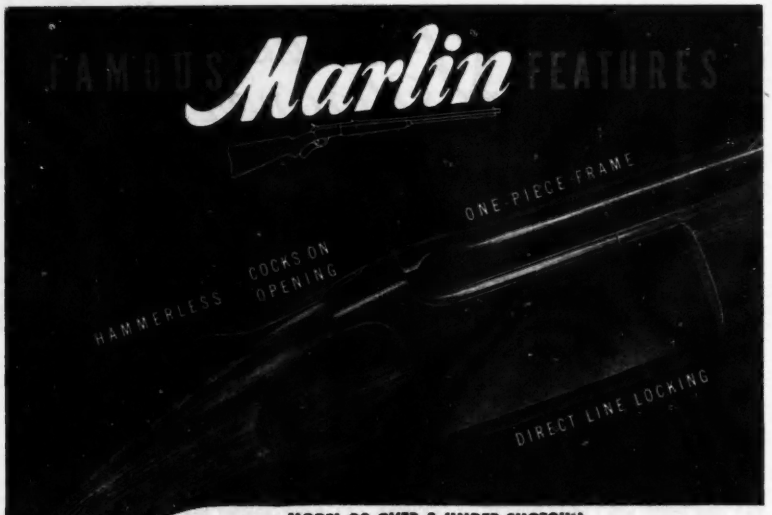
GUNS, AMMUNITION, BOUGHT, SOLD, AND traded. Stamp for list. what have you to trade? F. Emerson, Box 54, Auburn, Mass.

I BUY, SELL, OR TRADE, MOST ANYTHING of value. Whit's Gun Shop, Fredonia, New York. 12-43

.38 SMITH & WESSON SPECIAL 6 IN, LIKE NEW Roper Stocks 125 cartridges $50.00 cash, or will trade for K 22 like condition. C. M. Rush, Hamilton, Texas.

SELL — EXCELLENT CONDITION SUPERB binoculars for marine or aviation navigation by Leitz (Leica) maximum light gathering 8 x 60 Maroctit #177833, hard leather case, $275.00; Carl Zeiss Zielklein 2¼x, case marred by bolt handle, complete side mount, optically excellent, $65.00; Hi-Standard long barrel H.E., slight blue wear from holster, 3 clips, 1000 Super X hollow point, $90.00; Smith & Wesson 38 Special 4" M. & P, #590430, very good to excellent, $60.00; Colt OMT #516208 4" .38 Special, as new, shot 12 times, $75.00; 9 boxes of wadcutters at $2.00, 2 boxes 200 grain at $2.50, sold with guns only; Crosley car 15,000 miles, 50 miles per gallon $650.00. WANT: Astronomical telescope; Contax telephoto 85-135 mm. or other; Leitz 6 x 42 or 6 x 30 binoculars; drop block action set trigger. Swap: Have 20 boxes #9 16-gauge and 18 boxes #7½ and 8 12-gauge, want 16 gauge #4, 5, 6, or 12 gauge #4, 5, 6 or R.2 22-3000 Lovell. Rent: Ducking shore first of year to end of season. R. N. Whaley, Quaker Neck, Chestertown, Maryland.

LATE MODEL 45 S&W REVOLVER, MAGNUM grips, holster, 100 cartridges $68.00. Want—8mm. projector. Dr. R. W. Lominack, 274 Grove St., Charleston, S. C.



MODEL 90 OVER & UNDER SHOTGUN

First Over & Under in the popular price field, Marlin's Model 90 was a major advance in firearm design. Simple, rugged, easy to handle, this fine shotgun is built for a lifetime of dependable use.

Marlin's Model 90 is hammerless and cocks on opening. Featured are the one-piece frame, direct line locking and straight line recoil. The gun is beautifully balanced, handsomely proportioned. It points easily, handles fast and gives even patterns with far-reaching, hard-hitting range.

Since early in 1942, engaged solely in war production.

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NEW HAVEN, CONN., U. S. A.

HI-STANDARD "B" VG TO EXCELLENT. Nearly 1000 rounds LR. First MO $65.00. B&L Signal Corps Binoculars, 6 x 30, mechanically and optically perfect. Outside fair to good. Just cleaned and collimated at factory. Leather case with compass. MO $60.00 or trade for OM HB .38 or .22. Jerry Stephens, Box 1031, McAllen, Tex.

FOR SALE—$480 ITALIAN MADE ACCORdion, made by Anelli. Two treble shifts, one bass. Beautiful instrument, with case. In perfect condition except for belt-buckle mark on back. Has beautiful tone. Would accept .270 Winchester with scope as part. Pvt. Neil Terhune, Co. "C", 3654th SU-ASTP, 717 Langdon, Madison, Wis.

9MM. LUGER $45.00. WANT 22", 6.5 MANNlicher & Ammunition. 9mm. Luger cartridges, 2" S & W., 22, Ammunition. W. Staudte, 5238 Milwaukee Ave., Chicago, Ill.

ITHACA SINGLE TRAP GUN GRADE 4, ENgraved, ventilated rib, beavertail fore-end, 32" full, auto ejector, very good $75.00; Springfield National Match Star gauged #1369735, VG, Redfield micrometer and issue sight, $80.00; .38 Official Police, excellent, Heiser shoulder holster, one box cartridges, $50.00; Hi-Standard Model B 4½", new, with Franzite ivory and factory grips, $42.50; Mossberg Model A Spotshot, original carton, $20.00; Want, Target Grade M 70'06. Money order only with stamped envelope. V. M. Hansen, 776 North 23rd St., La Crosse, Wis.

REMINGTON MODEL 25, .25-20, PUMP. 120 cartridges, excellent, $50.00. Telescopic Rifle Sights, Whelen, $1.50. Big Game Rifles, Keith, $1.50. Modern Gunsmithing, Baker, $4.50. Inletting of Gunstocks, Linden, $2.00. Genuine Woolrich Jacket No. 573, Red and Black Plaid, zipper, size 46, never worn, $12.00. Genuine Horsehide Sheepskin lined coat, like new, size 38, $20.00. Navy "P" Jacket, excellent, size 38, $8.00. Want .257 Rifle. Virgil Hettinger, 11th St., Berwick, Pa.

SALE—FACTORY AMMUNITION 30-30, 300, 303, 30-40, 270. Model 75 Target 8 x Winchester Scope sling extras Lyman Front & Rear sights, 10 shot clip perfect. 219 Zipper S. S. New Remington barrel, 120 factory ammunition perfect Sedgley R I Lovell, scope blocks. Extras. 12 ga. Remington #11 Automatic full 30", 100 Super X shells. Super K Hornet S.S. Winchester low wall, 200 reloads. 10X Lyman Targetspot 4 point mounts sheepskin case. Bullets .30 caliber 7mm, 8mm, .32 Special .30 caliber (7.65mm Luger). Detail and prices upon request. Will consider trades for above. E. C. Andrews, 2707 Barnes Ave., New York, 67, N. Y.

TURN YOUR SPARE GUNS INTO WAR BONDS, and let us clean and condition the ones you use. Military rifles remodeled. Send stamp for list of accessories and guns. Frank Pierce, Derryhoyle House, Natick, Mass.

SELL OR TRADE: $90.00 ELECTRICAL COURSE $45.00 or Varmint Rifle. WANT: Short Mauser action, 11mm. tool, .45-70 cartridges, empties, Ideal sizing lubricating dies .457. Steve Markovich, 7227 Marshall, Hammond, Indiana.

WINCHESTER M74, AUTOMATIC RIFLE. Shorts only. Latest Weaver 29S Scope. B Mounts. Q.D. Swivels, ⅞" sling. Excellent. 2000 cartridges. All $68.00. Will accept .22 long rifle cartridges at $10 per 1000. David F. Groves, 609 Fayette Pike, Montgomery, W. Va.

UNFIRED W-70, .300 MAGNUM, 48WJS, G & H Base, 200 cartridges, Redhead dies, $175; prefer trade for .276 Dubiel, .25 Magnum, Varminter. C. W. Flinn, 612 Patterson, Chicago, 13, Illinois.

.45 AUTOMATIC, PARKERIZED, PERFECT, $70.00. Univex 8mm. Projector, Film, Splicer, $35.00. WANT—Fine 2R Lovell, 4½ Woodsman, Hi-Standard E. J. S. Floam, 3 So. Frederick St., Baltimore, 2, Maryland.

S & W .357 MAGNUM, 6", EXCELLENT. KING sights. Roper stocks. Ammunition. $140.00. Trades considered. No telegrams please. Wm. Magda, 364 South Front, Memphis, 3, Tenn.

N.M. SPRINGFIELD, LYMAN 48, FAIR $40.00; Winchester 75T barrel 22", Marble-Goss rear, excellent, $45.00; Ranger O&U, 12 ga. skeetbore 26" barrel very good $35.00; Winchester 94, 30-30 carbine excellent $40.00; a few shells for each if wanted Trade for excellent or better Super Winchester 70, 30-06; 12 ga. skeetgun; Winchester 52 Sporter, 65m. B&L Scope. Russell Lehn, Warrensburg, Illinois.

SELL—SEALED CASE, 1680 ROUNDS, .276 Pederson Ammunition $40.00. 6mm. Lee Navy rifle, convert to .276 or use as is $25.00. Relic, Remington cap and Ball revolver $15.00. Pair Widewing Cowboy Chaps, $15.00. Pair Tancalf riding boots, made in England, fine, size 9c $15.00. Two sets boxing gloves (4 gloves to set) one set lightweight, one heavy, used little, $10.00 each set. Fine catcher's mitt, cost $16.00 sell for $10.00. Excellent official football, unused $5.00. Volleyball, Same $3.00. Wanted: Excellent or better Model 70, .270, barrel and action only. Kenneth Lorge, Bowman, No. Dak.

SELL—VARMINTER, BISHOP SPORTER STOCK, New barrel, Special crisp trigger, Mauser action, turned down checkered bolt handle sling and scope blocks, weighs 9⅛". Excellent plus. $135.00. Trade 1000 pistol primers # 1½ and 1 can bullseye for 1000 N.M.N.C. #8½ primers. Want .257 caliber 125 gr. Barnes spitzer bullets. B. G. Jenkins, Mt. Horeb, Wisc.

FOR SALE—.30-06 BULLGUN, SPRINGFIELD action, Winchester barrel, good $80. Scope blocks Fecker scope, $55. Two .22 ballard actions, Peterson barrels $40, and $50. Ithaca 12 ga. $45. Model 94, 38-55, $30. Colt Single Action Army target sights, $60. Want Alaskan and mounts, stamp for list of moulds, tools, bullets, etc. Val Ricker, 21 Oakley St., Poughkeepsie, N. Y.

PERFECT LYMAN JUNIOR TARGETSPOT, SIX power, ¼ minute click mounts $65.00. Excellent Colt, 22 Officers' Model, Heiser Holster, 200 shells $75.00, 3 boxes .219 Zipper new $3.00 box. 85, .22 Hornet shells, $5.00. Want Colt Woodsman 6½, Colt Single action frontier 7½, Deer Rifle with shells. Robert Ellithorpe, 2927 Rollingwood Drive, Richmond, California.

EXCELLENT HI-STANDARD, BERDON TARGET job, Mod. H.D. $75.00. Trade some 32 Long S&W; .38 Special and 22 L.R. for .22 B.B. or C.B. cartridges. A1 Fingerprint course, Belt and Disk Sander for what have you. A. L. Terhaar, 6425 Cross St., Jacksonville, Florida.

12 BROWNING AUTOMATIC, BELGIUM MADE, 30" full, excellent in, very good out, shells $90.00. 8mm, Mauser, Mannlicher type, 20" barrel, full length stock, cheek pad, recoil pad, rib barrel set trigger, beautiful gun, case & shells $135.00. 8 x 24 Hensoldt binoculars. Very good $60.00. 12 Remington pump, 28 full, good condition, shells $55.00. Want Woodsman, outboard motor, shotgun shells, high power shells. Mahlon Delp, 8068 Fareholm Dr., Hollywood, 46, California.

HI-STANDARD MODEL E, 4½, EXTRA 6¾ barrel. Heiser holster, excellent to perfect. $75.00. H & R Sportsman with holster, double action very good, $25.00. Remington Model 512P, fitted with 513 bolt, Weaver 333 scope, post reticule, dust caps, T 1 mount. All excellent. $35.00. 24 x 30 Tarpaulin No. 8 Olive drab, 90 pounds, factory package and absolutely new. $45.00. Wanted: Contractor's Rubber Tired Concrete or Coal Wheelbarrows. Ernest Crawford, Winamac, Indiana.

"K-22", PERFECT, HEISER, $65.00. STANDARD 52, speed lock, Lyman, new, $65.00. Savage .45 military automatic 3 mags., very good, $52.50. Issue Springfield, excellent, $55.00. Winchester SS, 25-35, Scheutzen action, Sedgley barrel, excellent, $45.00. Can use excellent or better 70-257 and Winchester 40 field. Fred V. Berger, Box 553, Port Townsend, Wash.

NEW 23-D SAVAGE HORNETS, $42.50. STEVENS 12 gauge doubles, $29.50. Want model 70, 30S rifles, binoculars, Parker Guns, Mauser rifles or actions, rifle scopes, pistols, guns of any kind. Gopher Shooters Supply, Faribault, Minn.

16 GAUGE FOX-STERLINWORTH DOUBLE; 16 gauge Marlin over and under; 3½ H.P. Waterwitch DeLuxe Outboard Motor—accessories. Few boxes commercial 30-30; details on request. Want—70 Winchester Hornet. Philip De Luce, 677 E. 241 St., New York City, N. Y.

$225.00 ERNEMAN WITH F 2.7 LENS, FILM pack adapter and 2¼ x 3¼ roll film holder for above Camera $110 cash or trade on Leica or Contax Model 70 Hornet or Varminter with scopes, or what have you. Max Adams, 1229 So. Home Ave., Berwyn, Ill.

LATE MODEL WOODSMAN 4½" BARREL EXcellent to perfect. Tuned action. Regular and target grips. Sheeplined holster. Extra clip. 200 cartridges. $50, or what have you. E. R. Hand, 1840½ 12th St., South, St. Petersburg, Fla.

TRADE 300. 30-06-M2 $6.50 PER 100 FOR #5C, 12 gauge shells. Sell Sharps Borchardt D.S., 22 Hi-Power, 28" heavy barrel, left hand stock, very good to excellent, case resizing, bullet seating dies, 100 fired cases, 416, 55gr., 485 63gr., 100, 70gr. bullets, Ideal mould 22636-60, scope blocks, no iron sights, $78.00. James Childs, 415 No. Parramore St., Orlando, Florida.

.22 ACE, EXCELLENT AND 45 CONVERSION unit, very good; Want—$75.00, S & W .357 or .38-44. 45 Auto very good. Want $40.00 or K.22 Master piece. W. S. Webb, Oceanport, N. J.

M70 SUPER GRADE, HEAVY BARREL SWIFT, perfect, unfired, $135.00. M70 Hornet, custom stocked, excellent out, perfect inside $110.00. Components, ammunition, reloading equipment for both. DWM 9mm. Luger, cartridges, extra magazine, Holster, $50.00. B & L 50mm. prismatic, perfect, $70.00. 44-40 single action, extra barrel, excellent, cartridges, $45.00. Wanted—.38 OMT, percussion target, antique firearms, single shot rifles. Trade .22 L.R. for above or pistol primers. Super Ikonta "B" latest perfect, complete accessories, $250.00. New 4 x 5 Graphic, complete accessories, $300.00. John Amber, 1313 E. Marquette, Chicago, Ill.

REMINGTON 37 (1939), FACTORY IRON, 8X Winchester scope, excellent, $110.00. Want excellent M70 Hornet or 2-R. Preferably with 330 Weaver on; Redfield Mount, cases, tools and components Want 48K. Have 48WJS. T. H. Dudley, 4554 Sancola, No. Hollywood, Calif.

KRAG SPORTER, BUILT IN PISTOL GRIP raised comb, 24" barrel Pacific peep, Springfield front sight, excellent, $45.00; Scales similar to Pacific, new $7.50; 300, 30-06, 1938, boattail $10.00 per 100; 3 boxes .38 Automatic, Peters $4.00 per box; 1 box .45 Automatic, Peters, $4.00; 500, 30-06 handloaded maximum, 172 gr. boattail bullets, late cases, non-corrosive primers $12.50 per 100; 700 Hornets handloaded, using 40 gr. S.P. $10.00 per 100; Handloaded .30-40, 169 gr. $12.50 per 100; 220 gr. metal patch $15.00 per 100; 100, 45 specials, handloaded, $8.00; 300, 38 special, wadcutters, $6.00 per 100; Wanted—Pacific tool with Hornet dies. Also 1918, 150 gr. jacketed bullets. Arthur H. Hanson, 2715 Wood, Kansas City, Kansas.

NEPTUNE 4 HP. TWIN CYLINDER OUTBOARD motor, late model #11B4, run few hours, excellent. $75.00 F.O.B. Want—Browning "Sweet Sixteen", .45 ACP. George Gustin, 1471 Vernon, Wabash, Ind.

SELL—SMITH & WESSON .38 SPECIAL, 6" BARrel, new shot twelve times; $62.50. Sell—Colts Police Positive Special in very good condition; $37.50. Offer $25.00 for good double or bolt action 12, 16, or 20 gauge. R. W. Winstead, Natchitoches, La.

RIFLES & SHOTGUNS, CARD BRINGS PARTICUlars. Small lots ammunition. Want .44 Special tools, mould. F. H. Powell, Rector, Ark.

SELL OR TRADE—H & R SINGLE SHOT, 10" barrel, sheepskin holster, $32.00; Colt 32 Automatic $33.00; 20X spotting scope, Wollensak. $28.00; all excellent to perfect. Will trade 60 rounds, 30-06, 150 grain Super X for 60 Remington 110 grain. Want B & L Spotting Scope. Will trade Colt Woodsman, excellent condition. 6" barrel target model, extra clip for Colt Officers Model Target 22. W. H. Riethmiller, 606 Forest Ave., Pittsburgh 2, Pa.

OFFICERS' BLOUSE 38 X 33, CAP 7¼, HIGH quality, new, $35.00; 150, .38 Special midrange wadcutter handloads $6.00. Want—fine old shotgun, $50.00. W. A. Ball, Oneida, N. Y.

WINCHESTER .32-20 S.S., VERNIER FRONT and rear sights, outside good, bore very good. $12.00. Marlin pump, 12 ga. full, 30" barrel, blueing poor, stock very good, bore excellent, action needs overhauling. No broken parts. As is $12.00. Krag as issued, good, $30.00. English 10 ga. percussion double, finish poor, shooting order. $4.00. Want guns, modern and antique, any condition, parts, accessories, 12 ga. shells, small gasoline motors. Ray Groff, 32 Second St., Newport, R. I.

FOR SALE—COLT GOVERNMENT MODEL 45, good, Heiser holster, two boxes ammunition, $45.00; Colt Camp Perry 10", excellent, $45.00. Wanted—Colt Bankers .22 caliber, 35mm. Camera. Leon S. Kaplan, 132 Main St., New Britain, Conn.

HI-STANDARD MODEL E, 4½ INCH. KING micrometer rear. Left-hand factory stocks. Perfect inside, excellent outside. $65.00. Large stock of I. R. Expert, Kleanbore, Leader, extra with gun only. Officers Model .38, Heavy barrel, excellent inside, very good outside, $55.00. About 2,000 handloads, wadcutter and round nose @ $3.50 per hundred. .45 Automatic, complete accuracy job by Berdon. Front strap and straight housing stippled, extra arched housing N.M. barrel. Finest accuracy. Perfect inside, excellent out. Reblued. $75.00. Small quantity of arsenal and handloads if wanted. Also good .45 service barrel, $2.00. 5,500 Western 1½, 3300 Winchester 111 primers at $12.50 m. Eight ½ lb. canisters bullseye, one of No. 6 $8.00. Star sizer and lubricator, dies for Hensley .38 and .45 wadcutters, excellent, $22.00. Pacific scale with weights, as new $8.00. "Ideal" shell indentor, .45 Automatic, $3.50. Pacific tool, .38 and .45 dies, plungers, bullet seaters, $25.00. Hensley double cavity .45 wadcutter mold, casts perfectly, $7.00. Adjustable powder measure, made to order by toolmaker, calibrated like "Ideal." An excellent job, $8.50. Large quantity of .38 and .45 cast bullets, wadcutter and round nose sized and lubricated at 90¢ per hundred for .38. $1.10 for .45. Will furnish further details, if wanted, for stamped envelope. Want Parker or Winchester 21 skeet, 12 gauge. Modern sporting and target rifle. Ammunition for above. F. A. Wiard, 2315 Harding Ave., Muskegon, 28, Michigan.

S&W MAGNUM 5", V.G. OUT, EXCELLENT IN, Pointer thumb stocks, King sights $120. Officers' Model .38, good out excellent in, 6" Patridge, $60. Colt Official Police 38, Sights excellent Patridge, S & W target rear, 6" skeletonized hammer, stag grips, V.G. out, excellent in $50. Excellent 12 gauge Remington Automatic 11, Weaver Choke 3 tubes, attached Weaver 1X scope, $85. For Winchester 348, all bullets 200 S.P., 84 cartridges $8.40, 500 bullets, $17.50, 129 shells $3.50. $500 Monroe Calculator, excellent, automatic division $250. Wanted for cash or trade: excellent blued target. S & W 44 and reloading tools. Also Outdoorsman. N.R.A. Member, Dr. Charles Reynolds, Huntington, West Virginia.

S & W .22-32 KIT GUN, SQ. BUTT, EMBEDDED cylinder, excellent to perfect, $65.00. Colt .22 OMT., embedded cylinder Red bead, front, very good, $62.50. Iver Johnson (38 S&W) 5" barrel, hammerless, excellent, except for few blueing spots, $14.00. Savage 99G, .22 High Power DeLuxe, checkered, 3 boxes 70 gr. Kleanbores, excellent, $75.00. 30-06 Army issue primed cases, never fired, 1¢ each. 20, 30-06, 34 issue & 20, 30-06, 41 issue $2.00 each. Wanted front & rear sights (no Army stuff) all other types. M. D. Maxon, 825 Aldine St., St. Paul, 4, Minnesota.

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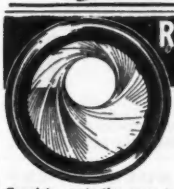

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TRADE—.22 LONG RIFLE KLEANBORE CARtridges for .22 short's at rate of 350 L.R.'s for 500 Short's. Fresh Match L.R.'s, Palma, Police, and Super Match, etc., for regular L.R.'s. Rate 600 for 800. Each pay own Express. Trade any amount. Sportsmen's Headquarters, Palm Springs, California.

WANTED — 12 GAUGE GOOSE SHELLS, HIVelocity, No. 2 BB, or 4 Buck, small or large quantities, send prices and description. Frank Efinger, Box 85, Boundbrook, N. J. 12-43

FOR SALE—25, 9MM. RIFLE SHELLS $2.00. Fred Nuxoll, Marathon, Wisc.

NO 22S SHIPPED IN OCT. REACHED ME. Still need hollow points. William Sheffer, Wingdale, N. Y.

CARTRIDGES FOR ADVANCED COLLECTORS —.318 W.R., Sharps, etc., Small Quantities. Lists 15¢ stamps. Herbert Longo, 390 East 153rd St., New York City 55, N. Y.

TRADE—400 FACTORY HORNETS; 200 WESTern Wadcutters for .410 shells—100 for 100. Will buy .410's. A. D. Harris, Clarksville, Md.

WINCHESTER RIFLE CARTRIDGES CALIBER .32 Ideal, Peters .35 S & W Automatic Pistol Cartridges, $2.00 hundred. Carl Lindahl, 180 North Wabash, Chicago, Illinois.

WILL EXCHANGE THREE BOXES OF .303 Savage cartridges for .30-30 cartridges. Harry McGinley, R.F.D. #4, Houlton, Maine.

MODERN AND OBSOLETE CARTRIDGES ALL sizes. Send list for quotation. Ed Howe, Coopers Mills, Maine.

SEND THREE CENT STAMP FOR LATEST LIST of Modern and Obsolete Cartridges. Kimball Arms Company, Woburn, Mass. tf

WANTED—100, 32 AUTOMATIC CARTRIDGES, will pay $5.00. James Barry, 29 Kenilworth Rd., Wellesley, Mass.

WILL TRADE THESE CARTRIDGES, ALL NEW stock; .30 Remington rimless, .219 Zipper, .44 S & W Special lead; for other good sizes we need. What have you? Hudson Sporting Goods Company, R-52 Warren St., New York.

WANTED—300 SAVAGE CAL. RIFLES OR AMMUNITION; 8mm. Mauser and .38 S & W Cartridges; automatic pistol cartridges in following calibers: .25, .32, .380, 9mm. .30 Luger. Spot Cash or Trade for any other size ammunition or guns. Ship express prepaid or write Klein's, 503E South Halsted, Chicago, Illinois FREE Fall "Bargain Catalog" send 25¢ (refunded with first order). tf

CARTRIDGES FOR COLLECTORS, SINGLE specimen, some boxed lots. List. Stamp. Ed Howe, Coopers Mills, Maine.

AMMUNITION: 3 BOXES, 515 A-MAUSER, 10.75 x 68, $7.00 each; 2 boxes .405 Winchester $2.50 each; 2 boxes Winchester 38 Super Autos $2.50 each; 8 boxes Peters .45 automatics, $3.00 each. O. N. Gregg, 4241 Troost, Kansas City, Missouri.

AMMUNITION PER 100. 303 BRIT., 174 GR. M.C. $4.00. 30.06 F.A. 38 $7.50, 25-35 Super X. 115 gr. $1.40 box. 45 C. A. late date $6.00. Flaigs, Hunters Lodge, Millvale, Pa.

RELOADING SUPPLIES AND HANDLOADS

WANTED—SHOTGUN PRIMERS. ANY SIZE OR make. State what you have, also price. Geo. F. Weisner, 321 Melrose Street, Modesto, California.

WANTED—IDEAL NO. 10 TOOL WITH ACcessories, for .30-06, also Mould 31135G or 308241. Describe fully first letter. R. B. Byars, 226 Wash.. Greenville, Miss.

POTTER "GEM" TOOL COMPLETE FOR THE .38 Special and .22 Hornet. Potter-Melting furnace Model B; Ideal-Resizer and lubricator for the .38 Special and .22 Hornet; Pacific scale complete; Bond Double cavity mould #358-673 w/Handles; Bond-Double Cavity mould blocks #A-224-523; 1 pound Dupont Powder #4227; 1 pound Dupont Powder #5; 1000 Primers 6½; 1000 Primers 1½; Ideal Powder measure #5; All very good $90.00. Potter-Lead tester, New $7.00. Carl T. Stevens, 1944 High Street, Camp Hill, Penna.

SELL—IDEAL 32-40 TOOL, DOUBLE ADJUSTable and neck size die and bullet mould 319247, good, $7.50. Ideal mould 375248, good, $2.50. Want .300 Savage empty cases. C. Dunn, 9101 South Damen, Chicago, Illinois.

.30-06 EMPTIES PRIMED OR UNPRIMED. 270 Empties primed, .30-'06 renecked. .30-'06 bullets 1918 2¢ 1941 150 gr. 4¢. Arthur B. Colwell, 48 Wendell Street, Providence, 9, R. I.

RELOADING EQUIPMENT, SOME COMPONents. Send stamp for list. A. R. Halley, 1721 Hildacrest, Huntington, W. Va.

WANTED—SHOTGUN PRIMERS. WILL PAY $1.50 per 100. Want reloading tools, shell trimmer and froner. Pacific tools, dies for .218 Bee, .22 Hornet, .257 Roberts, .300 Savage, .30 Luger, .45 Colts, .30-'06, .30-30. G. K. Lersch, 8314 Page Blvd., St. Louis, Mo.

WANTED—1000, N.M.N.C. SMALL PISTOL primers for personal use. Have 300 Winchester 3W brass shotshell primers to trade in part payment Ernest Graham, 20 Maury Avenue, Beaconsdale Newport News, Va.

WANTED—BELDING & MULL DIES FOR .30-'06, .30-40 and .220 Swift. Lt. R. O. Fleming Jr., Box 82, Riderwood, Maryland.

WANTED—PERFECT IDEAL MOULD 31133 Sell—140 grain F.A. swaged rounds nose lead bullet-one cent each. These bullets make accurate small game and target loads in most thirty caliber rifles Samuel Osgood, Custer Street, Rockland, Mass.

WANTED—ONE TO TWENTY THOUSAND primers No. 1½, NM NC, and .38 Special empty cases. State price wanted. D. H. Wallace, 363 H St. Chula Vista, Calif.

I WILL GIVE 1000 SISK 55 GRAIN EXPRESS .224 bullets and the difference in cash, for 1000 87 or 100 grain jacketed 25 caliber bullets. Geo. Semonsen, 591 Mission St., San Francisco, Calif.

TRADE—ANY AMOUNT .22 LONG RIFLE CARtridges for .22 shorts. Will buy shorts. Pay high prices. Peerless Vending Machine Co., 220 West 42nd St., New York City. Wisconsin 7-8610.

WANTED—.270 BULLET MOLD, 48W.J.S. REAR sight, reloading tools for .45-70 on Pacific Tool, .270 jacketed bullets. Gene Pond, 274, 29th St., San Francisco, Calif.

WILL PAY YOUR PRICE FOR PRIMERS FOR Winchester, Remington & Peters high & low base 12 and 16 ga. shells. Harry L. Brown, 225 No. Wheeling, Kansas City, Mo.

4,000, #2½ N.M. PRIMERS, 5400, #1½ BOTH Remingtons, 20 lbs. of #6 pistol powder, 175 lbs. of bullet metal, 2000 empties .38 Sp. Half of these have been reprimed, 1 Pacific scales, one Ideal lubricator, sizer with dies for .45 Colt, .38 Sp., 32-20. One electric furnace, one melting pot, 2 ingot moulds, 1 cartridge box holder. 2 moulds .38 Spl., one round nose the other wadcutter. 2 moulds .45 Colt, one round nose the other wadcutter, moulds by Hensley & Gibbs and an Automatic Duplex Potter reloader complete with dies for .38 Spl. & .45 Colt. All the above in new condition value $460.00, will sacrifice for $350.00 cash. J. A. Beaulieu, Brunswick, Maine.

WANTED—USED IDEAL NO. 4, OR WINCHESter tools, moulds, fired cases, any caliber. State price, condition, also issue .30-06, 30-40. Geo. W. Spence, Steele, Missouri.

AMMUNITION CUSTOM LOADED. ALL CALIbers. Name your pet load. Cast bullets for sale and trade. Small bullet moulds for sale. Wanted gang moulds, cases and metal case bullets. Wanted 52 Winchester, Super targetspot scope, target .38 special, must be in gun crank condition. Will trade reloading for almost anything of shooting value. Can make .270, .257 Roberts, .250 Varminter, .300 Savage cases from your fired .30-'06 empties, .05¢ each. Special until next issue of Rifleman, .30-'06 loaded with 169 Grain gas check bullets $1.20 a box, your empties. Look for next month's special. Art Binder, P. O. Box 424, 1915 Brewster St., Redwood City, California.

SEALED CASE (1200) REMINGTON 1917 KRAG 30-40 cartridges $45. 348 ditto $10.00. 4,000 Primed cases, .30-40, $3.50 hundred. 900 bullets, .30-'06 Hollow Copper Point, 180 grain, $5 hundred. 150 primed cases, .30-30 $5.00, 800 bullets, 30-30 F.M.J., 170 grain $2.50 hundred. 2100 bullets, .30-30 S.P., 170 grain, $2.75 hundred. 175 bullets, .45-70 S.P., 300 grain $5.00. 300 Primed cases, 7mm $10.00. 300 bullets 7mm, F.M.J. 175 grain $9.00. 1000 primed cases, .30-'06, $4.00 hundred. 1,500 primed cases, .45 ACP $3.00 hundred. Unprimed $2.00 hundred, 2000 bullets .45 ACP $2.50 hundred. 300 copper cases, caliber .45, 2⅜ long, 7¢ each. 300 cartridges, 50-70, $7.00 hundred. Krag rifle $20.00. Krag carbine $18.00. .45-70 Springfield $8.00. Enfield 30-'06 $14.00. Russian 7.62 $12.00. Wm. F. Deckert, 5744 S. Albany Avenue, Chicago, Illinois.

CUSTOM LOADS, RIFLE AND REVOLVER want primers, components. F. Emerson, Box 54, Auburn, Mass.

WANT PRIMERS FOR WINCHESTER, REMington, Western smokeless shotgun shells. Chas. J. Jordan, R.F.D. #1 #70, Herman, Missouri.

WANTED BADLY — FULL-LENGTH RESIZING dies for the .30-30, .300 Savage, 250-3000, .270 and .30-06. Wanted bullets: .22 Sp. and .30 Sp. C. W. Southworth, New Hartford, N. Y.

WANTED: BULLETS FOR 250-3000 SAVAGE. also Super Target Spot 10 or 12 power, will pay cash or trade large or small rifle primers also .22 cal. Sisk bullets. Joe Fingal, 414 Maryland Ave., Wilmington 55, Delaware.

IPCO COLLOIDAL GREASE WADS (RIBBON form) are an investment in better groups; furnish a gas seal retarding erosion. Perhaps Ipco Wads helped your friends shoot better groups. Ipco Colloidal Bullet Lubricant insures barrel protection, retarding or eliminating fouling. Extend barrel life with Ipco products. Handloaders appreciate Ipco Wads or Bullet Lubricant for Christmas. Boxes—$1.00 each, delivered. Industrial Products, 102 Pearl, Boston 10, Mass.

LYMAN MICROMETER MEASURE, NEW, $15.00. Lyman 308329, $7.50. B & M .308 sizer, $5.50. Hensley & Gibbs-99s-.30 double mould—$9.75. Want—Varminter dies & bullets. Dave Lanagan, 6223 Clybourn Ave., North Hollywood, Calif.

DUPONT, 4320, 4350, 4064, 4227, 1.60. #6 PISTOL powder, 8 oz., 1.00. Hercules 2400, Lightning, Hivel #2, 1.55. Unique and Bullseye, 14 oz., 1.60. Red Dot shotgun, pound, 1.85. Wads and shot. Arthur E. Anderson, Fullerton, No. Dak.

ATTENTION RELOADERS & HUNTERS: WE can convert your loaded 12 gauge Nitro Express, Super X or Hi Velocity shells into big game loads. We will load your shells with a 407 grain rifled slug (lead) at 25¢ each. Slugs only 15¢ each. No C.O.D.s. Please. Ned F. Kailing, 8026 N. Division Road, Milwaukee 9, Wisconsin.

PRIMED CASES, .30-06, 45 AUTOMATIC, 38 Special, Potter Duplex Automatic, 1000 primers, 38 Special Dies, Pacific Dies, 6.5mm, 300 H&H Mag. 160 grain soft point 6.5mm bullets. Primers. Details and prices on request. Stamp please. Wanted, Shotgun Powder. H. J. Dunlap, 105 Woodsworth Ave., Redwood City, California.

TRADE—108 PRIMERS FOR 8½, 120, 9½ N.M.N.C. have 3000. John Rush, 1105 Adelaide St., Normal, Illinois.

CASES FOR VARMINTER, 250, 300 SAVAGE, 7mm from .30-'06, &c. Shivell, 4323 Sunset Blvd., Los Angeles, 27, California. tf

160 HANDLOADED .32 REMINGTON $12.00. Unused shells. M. Smith, 2736 F. St., Toledo, Ohio.

WANTED—100 GOOD .35 NEWTON EMPTIES. R. B. Sisk, Iowa Park, Texas.

CHILLED SHOT AND BUCKSHOT, ALL SIZES, $1.00 per 5 lb. bag. DuPont bulk shotgun smokeless powder, $1.00 per half pound canister. DuPont 4198, 4320, 4227, 4350, 4064, Hivel No. 2, 2400, Lightning, $1.60 lb. DuPont 4759, No. 6, Unique and Bullseye, $1.00—½ lb. Send federal explosives license with order. Send empty cans for the Hercules Powders and No. 6 DuPont. I have no primers, bullets or cases left. Leslie Lindahl, Central City, Nebraska.

TRADE PART 2.R. LOVELL COMPONENTS FOR Swift components. (may sell). Walter Douglas, R. D. #2, Red Lion, Penna.

WANTED — SHOTGUN PRIMERS, WESTERN #209, Peters #4, Remington #57. W. S. Tanksley, Bristol, Virginia.

WANTED—200 BULLETS 110 gr. 30 CALIBER Winchester open point or 30 Luger 93 gr. soft point. Need them for coyote loads. Charles Pierson, 416 18th Ave., Sidney, Nebraska.

500, 270 BULLETS, SPITZER OR HOLLOWPOINT 125 grain full jacketed 10¢, hollowpoint 12¢ each. Send 15¢ for sample. Also 500, 257 bullets 87, 100, 117 grain 8¢ each. Roy E. Weatherby, 7672 California Ave., Huntington Park, Calif.

TRADE ONLY—500, 45 GRAIN WM 8-S BULLETS, 500 large rifle primers towards binoculars Connie Malinowski, South Deerfield, Mass.

WANTED—COMPLETE RELOADING TOOLS for .30-'06, primers, powder, empty or primed cases. All correspondence answered. P. A. Hertzler, 555 No. Pine Ave., Chicago, Ill.

WANTED—MOLDS AND HOLDER FOR WINchester .32 Special, primers, powder, empty or primed cases. All correspondence answered. P. A. Hertzler, 555 No. Pine Ave., Chicago, Ill.

WANTED—PRIMERS, CASES, BULLETS, ALL calibers. Want S & W 2" or 44 Special. F. Emerson, Box 54, Auburn, Mass.

TIME TO BUILD TRUITT'S INEXPENSIVE, adjustable Powder Measure. See Dope Bag, August, 1939. Full size drawings and instructions, One dollar money order. R. S. Truitt, Walcott, Iowa. 1-44

TRADE—WINCHESTER 116 PRIMERS FOR Large Rifle primers or .22 long rifle cartridges. Will trade cases for above. Can also use Frankfort Arsenal primers. Clarence Helmricks, Ray, Arizona.

WANTED—PACIFIC DIES FOR THE 270, WILL buy or trade 220 dies, also will trade 220 or 257 bullets for 270 bullets. Roy E. Weatherby, 7672 California Ave., Huntington Park, Calif.

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WANTED—MAUSER ACTIONS. RECEIVER sights for Mauser or Redfield scope mounts. Roy Vail, Warwick, N. Y.

.220, .257, 6.5 & 7MM. BLANKS & BARRELS wanted, new. Will consider excellent & better. Shivell, 4323 Sunset, Los Angeles, 27, California. tf

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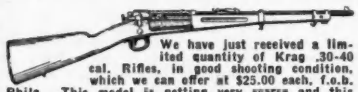

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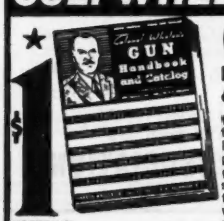

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SELL BARRELS ONLY 70, 30-06, 250-3000 AND 52 heavy, $15.00 each, 30-06 cartridges $6.00 hundred, not 1918. Leo Brennan, 26 George St., Bristol, Connecticut.

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WANT—CAMERA, 35MM. (F.3.5) LENS OR BETter, for cash, or trade fine guns. S. De Ranitz, Reserve Officer's Training Corps, Prairie du Chien, Wisconsin.

CATALOG JUST OBTAINED A COLLECTION of 2000 Modern and Antique handguns, send coin 25¢ for your copy. Hensoldt 8 x 56 Central Focusing, Nacht. Dialyt, light weight, excellent condition $250.00. Busch, 8 x 24, Individual Focusing, like new $55.00. Leitz, 8 x 30, Central Focusing, light weight, excellent condition $100. Zeiss, 8 x 24 Central Focusing Turachtem, excellent condition $85.00. Leitz 6 x 24, Central Focusing, Binolit, like new, $100.00. Hensoltz, 8 x 26, Central Focusing, Travel Dialyt. Excellent condition. $75.00. Public Sport Shops, R-67, 13 S. 16th St., Phila. Pa.

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WANTED—14½ REMINGTON, 92 WINCHESTER or Marlin. Caliber 38-40 with cartridges. H. H. Ott, Gresham, Oregon.

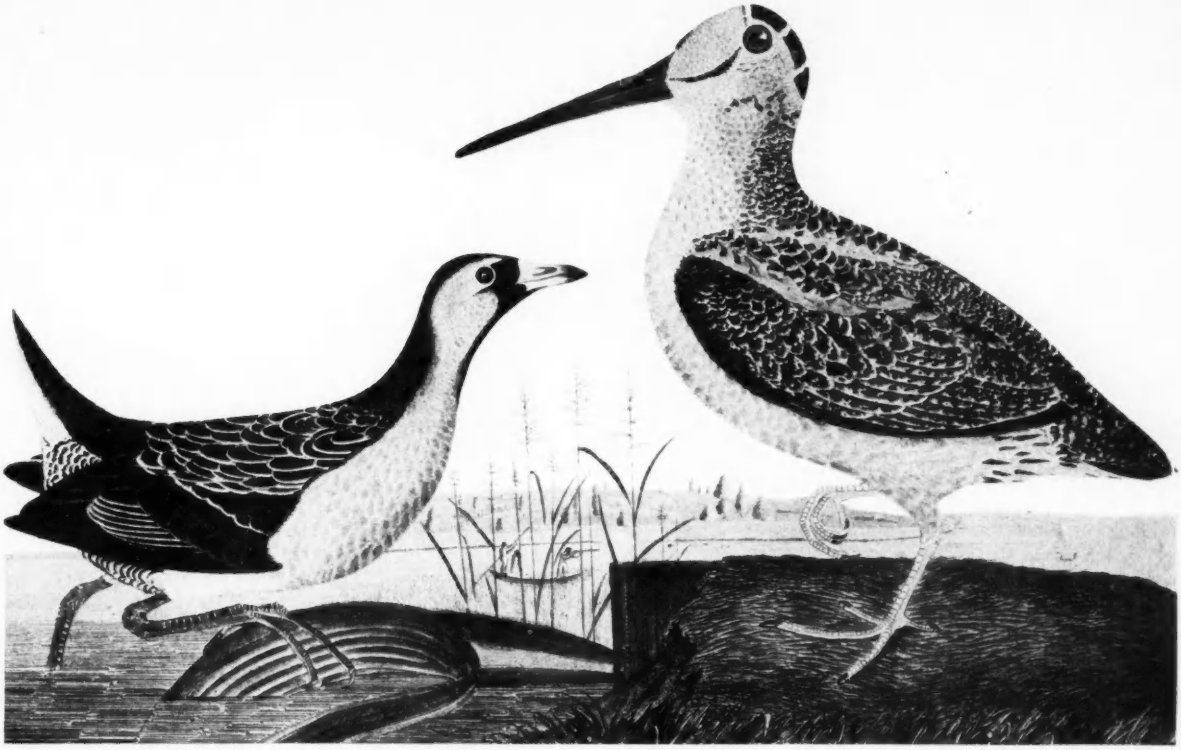
WANT: .22 AND .270 CALIBER EXPANDING bullets. N.M.N.C. primers. R. L. Eager, Box 411, Rainier, Oregon.

REMINGTON 12 GAUGE AUTOMATIC, RIB barrel, Cutts, excellent in, very good out, 50 shells, $95.00. Remington Sportsman, 12 gauge, one barrel plain 30" full choke, one barrel ventilated rib 28". Fine trunk case and 50 shells. $145.00. Remington 12 gauge Auto, good, Weaver Choke $55.00. 410 Double hammerless very good, except crack in stock, leather takedown case and about 60 shells $35.00. Dale Weeks, Belle Fourche, S. Dak.

TWO NEW MODEL 70 SWIFTS, STANDARD and super Lyman 5A and Weaver 29S, factory Ammunition, components. Details on request. Ernest Fumasoli, 5937 Magnolia, Chicago, Illinois.

WINCHESTER 52HB, perfect in, very good out, scope height Vavers, $80.00. 7mm. Mauser, Bishop job, slight pits bore, otherwise very good, Redfield 70 rear, ramp front, QD swivels, 50 rounds D.W.M. $75.00. Want Winchester 70 or equivalent in .257, .270, 30-06, very good or better with 40 rounds ammunition. John McGuire, Box 471, Cumberland, Maryland.

300 SAVAGE CARTRIDGES IN EXCHANGE FOR .32 Remington. D. A. Everett, Everett Hardware Company, Jackson, Mississippi.



A crop well worth tending

IN the early days of America, game of all sorts was plentiful. Like Topsy, it "just grew." And if it happened to become scarce in some locality, the colonists simply moved out to new frontiers.

Finally, *nationwide* game supplies were depleted, and there were no new frontiers. Some species of game, in fact, became extinct. And all shooting for sport—even shooting for food itself—was seriously endangered. It has been only through careful and far-sighted planning that much native game has been restored. Today, game is rightfully regarded as a *crop* in need of careful tending—if we are to preserve the American heritage of shooting.

You, as an individual hunter, can do your part in the great collective effort to replenish our country's game supply. Simply join one of the many sportsmen's clubs devoted to game restoration. The dues are small—the rewards are many in free and good hunting for you and future generations of Americans.

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GAME BIRDS, TOO, MUST FIGHT TO SURVIVE

Wild game also has its Japs and Nazis. It is fighting constantly to survive. If it eludes predators, on the ground and in the air, it must face the rigors of Winter, with a shortage of food and cover.

In wartime, we Americans must regard our game as a potential food supply, harvesting the surplus carefully, using it wisely, and protecting the breeding stock to insure a food crop for next season.

Now, thousands of wildlife's protectors are in the armed services. Someone must provide food and shelter when the going gets tough. The profusely illustrated booklet, Upland Game Restoration, tells how. For your free copy—and one for your farmer friend—write, WESTERN CARTRIDGE COMPANY, East Alton, Illinois.

Western - WINCHESTER

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